

U. S. DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION Form Approved. Budget Bureau No. 41-R041.5.

INSTRUCTIONS

APPLICATION FOR AIRWORTHINESS CERTIFICATE
AND/OR ANNUAL INSPECTION OF AN AIRCRAFT

Please print or type. Submit this form to the Civil Aeronautics Administration Aviation Safety Field Representative.

	AND/OR ANNUAL INSPECTIO	IN OF AN AIRC	Field Rep	resentative.	·		
1.	TYPE OF APPLICATION (Check which)	·	<u> </u>				
	a. ORIGINAL ISSUANCE OF CERTIFICATE		d. RECERTIFICATION	UNDER THE PROV	ISIONS OF CAR 8		
	b. ANNUAL INSPECTION FOR RENEWAL OF	CERTIFICATE	e. MULTIPLE CERTIFIC	CATE UNDER THE	PROVISIONS OF CAR 8		
	c. L AMENDMENT OR MODIFICATION OF CUR	RENT CERTIFICATE	r. 🗆				
2.	. AIRWORTHINESS CLASSIFICATION	(Check appropriate item(s					
	It is requested that the Certificate of a worthiness classification(s):	Airworthiness be iss	ued to permit operation	on of the aircra	aft in the following air-		
	a. T STANDARD (NORMAL, UTILITY, ACROBAT	TIC, TRANSPORT CATEGO	ORIES)		•		
	b. [] LIMITED (SEE CAR 9)						
	c. RESTRICTED (SEE CAR 8) (Check the restricted special purpose operation	(s) to be conducted)					
	☐ AGRICULTURAL AND PEST CONTR	OL	☐ PATROLLING				
	☐ AERIAL ADVERTISING		FOREST AND WILD	JFE CONSERVATI	ON		
	☐ AERIAL SURVEYING		WEATHER CONTROL				
	GLIDER TOWING		OTHER		:		
	d. EXPERIMENTAL	1					
	(Check the type of experimental operation(s) to RESEARCH AND DEVELOPMENT	be conducted)	RACING				
	☐ AMATEUR-BUILT		EXHIBITION				
	DEMONSTRATION		OTHER		\		
	DEMONSTRATION		_ Other				
3.	AIRCRAFT IDENTIFICATION (Complete	le all items)					
	a. AIRCRAFT MAKE	b. AIRCRAFT MODEL		c. AIRCRAFT SI	ERIAL NO.		
	GRUMMAN	G-21A		1172			
	d. ENGINE MAKE		e. ENGINE MODEL				
	PRATT & WHITNEY		r-985-an4		•		
4.	AIRCRAFT REGISTRATION INFORM	MATION (Complete all i	tems)				
	a. REGISTERED OWNER'S FULL NAME		b. PERMANENT MAILING	ADDRESS	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK		
. '	J				AND REGISTRATION MARK		
رز	Alaska Coastal-Ellis Airl	ines	2 Marine Waj	7	N- 74676		
,	ATGOIG COGO GGT TITITO HILL	21100	Juneau, Alaska				
			o micau, Alaska				
_	ALDODA ET OWNEDIG GEDTIELGATIO	201 (6)					
5.	. AIRCRAFT OWNER'S CERTIFICATIO		· · · · · ·	t identified in	Item 3 above which is		
5.	AIRCRAFT OWNER'S CERTIFICATION I hereby certify that I am the regregistered* with the Civil Aeronautics or 502 and when operated displays the	gistered owner (or h Administration as r	is agent) of the aircrafequired by the Regula	t identified in	Item 3 above which is dministrator, Part 501		
5.	I hereby certify that I am the regregistered* with the Civil Aeronautics	gistered owner (or h Administration as r following evidence	is agent) of the aircrafe equired by the Regula of registration:	t identified in	Item 3 above which is administrator, Part 501		
5.	I hereby certify that I am the reg registered* with the Civil Aeronautics or 502 and when operated displays the a. CERTIFICATE OF REGISTRATION, FORM B. X APPLICATION FOR REGISTRATION, FORM W-300 ON 10/1/62	gistered owner (or h Administration as r following evidence ACA-500 (PART A). DATE	is agent) of the aircraf equired by the Regula of registration: E OF ISSUE	tions of the A	dministrator, Part 501		
5.	I hereby certify that I am the regregistered* with the Civil Aeronautics or 502 and when operated displays the a. CERTIFICATE OF REGISTRATION, FORM ADMINISTRATION FOR REGISTRATION FORM	gistered owner (or h Administration as r following evidence ACA-500 (PART A). DATI I ACA-500 (PART B). FO	is agent) of the aircraf equired by the Regula of registration: E OF ISSUE	tions of the A	dministrator, Part 501		
5.	I hereby certify that I am the regregistered* with the Civil Aeronautics or 502 and when operated displays the a. CERTIFICATE OF REGISTRATION, FORM B. APPLICATION FOR REGISTRATION, FORM W-300 ON 10/1/62 C. DEALER'S REGISTRATION CERTIFICATE, 100 CERTIFICATE,	gistered owner (or h Administration as r following evidence ACA-500 (PART A). DATI I ACA-500 (PART B). FOI	is agent) of the aircraf equired by the Regula of registration: E OF ISSUE	tions of the A	dministrator, Part 501		
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	I hereby certify that I am the regregistered* with the Civil Aeronautics or 502 and when operated displays the a. CERTIFICATE OF REGISTRATION, FORM B. X APPLICATION FOR REGISTRATION, FORM W-300 ON 10/1/62 c. DEALER'S REGISTRATION CERTIFICATE, 10 DEALER'S REGISTRATION CERTIFICATE, 10 order to be eligible for registration an aircrowned by a citizen of the United States, as defined 1 (13) of the Civil Aeronautics Act of 1938, as amen	gistered owner (or h Administration as r following evidence ACA-500 (PART A). DATI I ACA-500 (PART B). FOI FORM ACA-1707, DATED aft must be by Section aded.	is agent) of the aircrafe equired by the Regula of registration: E OF ISSUE RM ACA-500, PART A, FORW	ARDED TO CAA A	IRCRAFT RECORDS BRANCH,		
	I hereby certify that I am the regregistered* with the Civil Aeronautics or 502 and when operated displays the a. CERTIFICATE OF REGISTRATION, FORM B. X APPLICATION FOR REGISTRATION, FORM W-300 ON 10/1/62 C. DEALER'S REGISTRATION CERTIFICATE, OTHER OWNER OF THE CONTROL OF	gistered owner (or h Administration as r following evidence ACA-500 (PART A). DATE ACA-500 (PART B). FOI FORM ACA-1707, DATED aft must be by Section aded. PORT	is agent) of the aircraf equired by the Regula of registration: E OF ISSUE	ARDED TO CAA A	IRCRAFT RECORDS BRANCH,		

U. S. DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

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		DATE	DESIGNATION NO.	DESIGNEE.2 SIGNATURE
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				YHTROWRIA □
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			NOI	5. CAA APPROVED REPAIR STATION CERTIFICAT
		(.on noita		(NAME OF ISSUING REPRESENTATIVE)
		186-	- (3YA7)	E. N PREVIOUS FORM ACA-1362 WAS ISSUED TECHNITE BY BY A. M. JENNING
		(JTAG)	JS-S/-S	1. K] CERTIFICATE OF AIRWORTHINESS, FORM ACA-1362 ^A 1552 - STATEMENT OF THE STATEMENT O
#F-201 & 201E	7 * SON *		* *	e. THIS INSPECTION HAS BEEN RECORDED IN THE AIRCR.
		in accordanc		4. X CURRENT WEIGHT AND BALANCE INFORMATION IS AVA
and operate				c. 🗌 CURRENT APPROVED AIRPLANE FLIGHT MANUAL IS AV
- tour - tour		ion ton modifi	AVAILABLE IN AIRCRAFT	b. ☐ СИRRENT ОРЕRATION LIMITATIONS, FORM ACA-309, 15
4 43°T0°	vith CAI	compliance w	KOKKKKKKKKK :	в. Цуореration Limitations. f xikix XXX XXXXXXXXXXXXXXXXX
ai fle	gircr:	Available in	∧IEMED #\	4. AIRWORTHINESS DOCUMENTS ISSUED OR RE
		an ce w ith O cate Nos. A eR		D. T PERIODIC AIRCRAFT INSPECTION REPORT, FORM ACA-
n in accord-			U	■ BY APPROVED REPAIR STATION, CERTIFICATE N
		Inspection	(3TAG)	B. LAST AIRWORTHINESS INSPECTION CONDUCTED
•		•	В ВЕСОВ В В ОИ В ОВ	3. РЯЕVIOUS INSPECTION RECORD (INSPECTION
			тот запон датот	SERIAL NO.
		·	TOTAL HOURS	SERIAL NO.
	c	. 971 OST-nv	тоты ноияз <u>Unknow</u>	TOU TWINTS
	t		TOTAL HOURS 1701, 6	SERIAL NO. P227020
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			NANCE HISTORY	B. ARCRAFT NEW-NO PREVIOUS OPERATION OR MAINTE
			S	2. АІВСКАРТ АИД ЕИВІИЕ ОРЕКАТІИВ ВЕСОВД
			(FICATE)	d. GIVIL AIR REGULATION PART 8 (MODIFIED TYPE CERT
	-	62-22	тнвоиен савр ио.	c. K. AIRWORTHINESS DIRECTIVE SUMMARY 1962
		. 00 03		b. ★ AIRCRAFT LISTING PAGE NO. 98
		·o	нвоисн SHEET REVISION NO	B. AIRCRAFT SPECIFICATION NO.
. Q				(Check and complete applicable items) 1. AIRCRAFT AND ENGINE CERTIFICATION BASI
the following:	or mrolno:	ot banol bas ba	toenani need ean incoect	The sircraft described in Item 3 on the reverse of thi
	(noiti	·	representative or app	(To be completed by a CAA
			TARTEINIMDA SOITUANO	

UNITED STATES OF AMERICA - FEDERAL AVIATION AGENCY

SADARD AIRWORTHINESS CERTIFICATE

1. NATIONALITY AND REGISTRATION MARKS Z. MANUFACTURER AND MODEL

3. AIRCRAFT SERIÁL NUMBER 4. CATEGORY

N74676

GRUMMAN G-21A

1172

NORMAL

5. AUTHORITY AND BASIS FOR ISSUANCE

This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for, safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness cade as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.

NONE

6 TERMS AND CONDITIONS

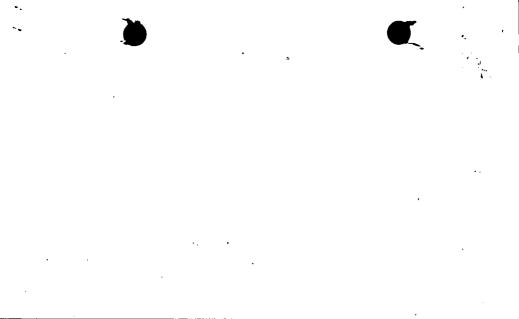
Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE 5 EXCHANGE STANLEY RY FERBER

DESIGNATION NUMBER

AL-FSDO-3

Any alteration, reproduction, or misuse of this certificate May be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.



UNITED STATES OF AMERICA FEDERAL AVIATION AGENCY



CERTIFICATE OF AIRWORTHINESS

I. NATIONALITY AND REGISTRATION MARKS	2. MAKE AND MODEL OF AIRCRAFT	3. AIRCRAFT SERIAL NUMBER
N- 74676	GRUMMAN G-21A	1172

STANDARD

5. This Certificate of Airworthiness is issued pursuant to the Convention on International Civil Aviation dated 7 December 1944, and the Federal Aviation Act of 1958, in respect of the above-mentioned aircraft which is considered to be airworthy when maintained and operated in accordance with the foregoing and the pertinent Airplane Flight Manual.

10/15/62 Stanley R. Ferber AL-3

DATE OF ISSUE

FAR REPRESENTATIVE

DESIGNATION NO.

6. This aircraft is being maintained under a continuous inspection system in accordance with the terms of Operating Certificate No. AL=501

A CATEGORIES

DIMERAENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form A	pproved		
Budget	Bureau	No.	04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION

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				oe all entries. See	FAR	43.9,	FAR 43 Appe	ndix B, and	AC 43.9-1 (or	subsequent	revision tl	hereof)	
	ļ	MAKE G	ura	A?V				MODEL G	-21A				
1. AIRC	RAFT	SERIAL NO.	 L72			NATIONALITY AND REGISTRATION MARK N74676							
		NAME (As she	own c	on registration certifi	cate)				As shown on regis				
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AIRFRAME (As des				scribe	ed in item 1 ab	ove) ******	***********	₩		x			
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PROPEL	LER												
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•		U.S.V.I				CERTIFICATED REPAIR STATION MANUFACTURER							
D. I c	certify (that the repa	ir an	d/or alteration ma en made in accorda irnished herein is t	ance v	vith	the requiremen	nts of Part 4	13 of the U.S. F	described or ederal Aviat	the reve	erse or lations	
DATE	WVE	BER 1, 1	978			SIG	NATURE OF	Slandi CLAUDE A			·		
				7	APPRO	VAL	FOR RETURN TO	SERVICE					
Pursua the Ac	ant to t Iministi	he authority rator of the F	giver edera	n persons specified Il Aviation Adminis	below tratio	the	unit identifie d is \(\) A PPF	d in item 4 ROVED	was inspected in REJECTED	the manne	r prescrib	ed by	
ВУ		ELT. STANDARDS		MANUFACTURER	X	INS	PECTION AUTHORIZ	ZATION	OTHER (Specify)	-		_	
D1	FAA	DESIGNEE		REPAIR STATION		OF	IADIAN DEPARTME TRANSPORT INSPE AIRCRAFT						
DATE O		OVAL OR		CERTIFICATE OR	`	SIG	NATURE OF	AUTHORIZED	INDIVIDUAL	Larler	efici	lin	
		525.D 1 16	979	TA 1617154	J.			CHARLES	FRIENLING	nurg	-009		

applicable airworthiness requirements. Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the **NOTICE**

DEPORTIONAL SHEETS ARE ATTACHED
· ·
·
SMOTICH SNUHLON
Weight and Balance correction entered in Aircraft Log Book.
stoot not thereath at tenates not towns against hen the tall
See attached data.
Increase maximum weight to 8750 lbs in accordance with SIC SA 3650ME.
craft nationality and registration mark and date work completed.)
8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with air- craft nationality and registration mark and date work completed.)
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appropriate an warming a second and a second a second and

RTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION 6/

									<u> </u>	
	ΓΙΟΝS: Print or ty ions and dispositio		FAR 4	43.9,	FAR 43 Appe	endix B, and	AC 43.9-1 (or	subsequent i	revision t	hereof)
	MAKE GRU	uman	•••			MODEL	G-21A			
1. AIRCRAFT	SERIAL NO.	72					ty and regist N74676	TRATION MA	ARK	
	NAME (As shown	on registration certific	cate)			ADDRESS (A	As shown on regis	stration certif	icate)	
2. OWNER										.ed,
			3	. FO	OR FAA USE ON	ILY				
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UNIT	м	AAKE '	L		MODEL		SERIAL	NO	REPAIR	ALTER- ATION
AIRFRAME	*****	***************************************	As des	scribe	ed in item 1 ab	ove) ******	······································	₩	. х	
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APPLIANCE	MANUFACTURER		I							
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	=======================================		6. (CONF	ORMITY STATEM					
	AGENCY'S NAME	AND ADDRESS		 	·	ND OF AGEN			TIFICATE	
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	S AIR BOATS, AS, U.S.V.I.		,		CERTIFICATED REPAIR STATION					
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attachmer	nts hereto have be	nd/or alteration ma een made in accorda furnished herein is t	ance w	with t	the requiremen	ents of Part 4	13 of the U.S. F	lescribed on ederal Aviat	the reve	erse or ilations
DATE				SIG	NATURE OF	AUTHORIZED	INDIVIDUAL.			
осто	DBER 31, 1978						PINHEIRO	Victor	Pinh	leins
					FOR RETURN TO	O SERVICE				
Pursuant to	the authority gives	en persons specified l ral Aviation Administ	below tration	, the	: unit identifie d is X APPI	:d in item 4 v ROVED [] I	was inspectēd ir REJECTED	the manne	r prescrib	ed by
1 1	FLT. STANDARDS PECTOR	MANUFACTURER	х		PECTION AUTHORI		OTHER (Specify)			.•
	DESIGNEE	REPAIR STATION		OF 1	IADIAN DEPARTMI TRANSPORT INSPI AIRCRAFT	1				
DATE OF APP	ROVAL OR	CERTIFICATE OR DESIGNATION NO) .	SIGI	NATURE OF	AUTHORIZED	rulla	ng		
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

SMOTTON SNIPLON	
SMUTION JANTALON	
Section 3.	
Nav. Aer. 01-85V-3, and AC 43-13-1A, Chapter 2, Section 3, and Chapter 3,	()
All work above done in accordance with Grumman Structure and Repair Manual,	(13)
All work found satisfactory.	
wheel removed, system removed for safety, passenger sits in co-pilot's seat.	
assembly, floor closed out made into one piece, co-pilot control system and	
Inspected aircraft, found co-pilot foot pedals removed from hinge support	(11)
for convenience capatrip repair.	
repair carried out as per Repair Manual, page 36, Figure 14. Station #211 to Station #256, Repair Plate 26" x 2" x 2024.073, fabric removed and replaced	
Outer panel rear capstrip repair, left wing, corroded section removed and	(11)
Repair.	4
carried out as per Repair Manual, page 36, Figure 14 - Wing Box Beam Capstrip	
57, cap is 2024T3.073 and goes aft to the first "2" angle in fuel tank, repair	(oT)
Front center section box beam capstrip insertion repair left wing Station 42 to	(10)
Bulldhead Repair Reference Diagram. Spliced vertical post Station 13, left side	•
fitting, from side of hull to wheel-well void up 23" splice I/A/W Figure 75 -	
Repaired Bulkhead Skin, Station 13, left and right side behind rear main gear	(6)
SOSATS.040.	
Replaced Hull Skin, left side, Station 11 to Station 13 in Wheel-wellabove main gear support fitting, I/A/W Figure 63, Hull Skin Insertion Repair, insertion is	(8)
Mounting: original G-21A location and shock mounts.	COM
a. Panel material: 24 St070 replaced by 2024 T5.125 anodized.	
and also permits improved arrangement of pitot, static and vacuum lines.	
Standardization of layout allows more efficient scanning of instruments by pilot	(1)
ref. No. 5 panel 24 St064 replaced by 2024 T3.071. Flight instrument panel modified to provide standardization throughout the fleet.	(7)
Replaced panel at Station #9, see Figure #71 - Hull Structure, Filot's Cabin	(9)
left and right Station #9. Installed new windshields left and right.	
Installed new left, center and right windshield post center at Station #8 and	(2)
about 6" back skin splice used two rows of #4 rivets.	
Replaced pilot's cabin skin, top left side Station #9.5 to Station #12, ref. Figure 62, hull skin plating Diagram Skin #39. Patch skin #41 above windshield	(4)
hull plating and par. #8, damage necessitating replacement and Figure #65.	(V)
plating Diagram Skin #5 2024T3.032, splice at Station #8 I/AW page 113 (C)	
Replaced hull nose skin from Station #8 to Station #9 ref. Figure #62, hull skin	(5)
skin plating Diagram Skin #3 2024T3.032.	(-)
Installed new bow hatch stringer left and right, new skin ref. Figure 62, hull	(z)
Replaced hull nose bumping from Station #0 to Station #1 and nose rib assembly ref. Figure 72.	(1)
Herationality and registration mark and date work completed.)	
RIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with air-	8. DESC
capie airworminess requirements.	ıddp

TMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

FAA Form 337 (7-67)

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

(8320)

OFFICE IDENTIFICATION
50-7-800-6/

	TIONS: Print or ty ions and disposition	ype all entries. See on of this form.	FAR	43.9.	, FAR 43 Appe	endix B, and	AC 43.9-1 (o)	r subsequent 1	evision t	hereof)
	MAKE	MAN	•			MODEL	G-21A			
1. AIRCRAFT	SERIAL NO.					NATIONALIT	ty and regis N74676	STRATION MA	RK	
2 OWNED	NAME (As shown	on registration certific	cate)			ADDRESS (A West Se	As shown on reg aplane Rar	istration certifi Mo. Chris	icate) tianst	ed.
2. OWNER	TVA	TILLES AIR BOAT				ST CROI	X, U.S.V.			
			3	3. FO	OR FAA USE ON	LY				
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		4. UN	IT ID	ENTIF	FICATION				5.	TYPE
UNIT	1	MAKE			MODEL		SERIAL	L NO.	REPAIR	ALTER- ATION
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ne————————————————————————————————————			6.	CONF	ORMITY STATEM	MENT	<u> </u>	-,	<u> </u>	
A.	AGENCY'S NAME	AND ADDRESS		 -		ND OF AGEN		C. CER	TIFICATE	NO.
VICTOR P	INHEIRO	•		X	FOREIGN CERTIFICAT	, 		A & P 3	78437	
	AIR BOATS,			<u> </u>	CERTIFICATED R	·····		4		
ST THOMAS	S, U.S.V.I.	00801		MANUFACTURER						
attachme	ents heretó have b	and/or alteration ma been made in accorda furnished herein is t	ance v	with	unit(s) identi the requiremen	tified in item	13 of the U.S.			
DATE				SIC	SNATURE OF	AUTHORIZED	INDIVIDUA!.			
OCTO	OBER 31, 197	8				VICTOR !	PINHEIRO A	Victor 1	Pula	~ ∕~⁄i
		7. /	APPRO	VAL	FOR RETURN TO		<u> </u>			
Pursuant to	the authority give	en persons specified ral Aviation Adminis	below tratio	z, the	2 unit identifie d is X APPF	d in item 4 v ROVED [] I	was inspected REJECTED	in the manne	r prescrib	bed by
	A FLT. STANDARDS	MANUFACTURER	X	<u> </u>	PECTION AUTHORIZ		OTHER (Specify)			
	A DESIGNEE	REPAIR STATION		OF	NADIAN DEPARTME TRANSPORT INSPE AIRCRAFT					
DATE OF API REJECTION OCTO	PROVAL OR SER 31, 1978	CERTIFICATE OR DESIGNATION NO IA 1617154) .	SIG	Marture OF		INDIVIDUAL	LING		

☆ U.S. Government Printing Office 1977-772-646/141

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record.

e attached	es essential second	manufactured u	each lounges	owt belister	ıI (S)	
.noijallation.	carrier aircraft i	and flooring,	isting seats ,87	emoved all ex 557, 4/27	M (1) FAA FG	
Identify with air-	ach additional sheets.	ce is required, att date work compl				.8
contormity with the	is to assure continued	revious aiteration		must be compo worthiness requi		

- drawings (two sheets, G-21 1001).
- See attached Installed four each seats manufactured under TSO-C39. (Σ)
- drawing (two sheets, G-21 1001).

The above mentioned seats and lounges were attached to structure

(t)

not affect the structural integrity of the installation, are as follows: affixed to this report. Minor changes to this installation which do substantiation report date 15 June, 1969, #621-1, approved by DER LA-321

----- SMOTTOM SNIHLON -----Report DER LA-321. Seats and Three-place couch. Nav. Aer. 01-85V-3, and Structural Substantiation Installation of Floor, All above work done in accordance with AC 43-13-1A, Chapter 2, Section 3, (ς) Douglas Fir Plywood floor, Gilffoor 5007A was substituted, see attached channels to the floor beam on each transverse. Also in place of the makes it possible to use 4 #5 AW470 rivets for attachments of seat On each transverse floor beam, an angle was installed by riveting, which

☐ ADDITIONAL SHEETS ARE ATTACHED

RIMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION 6/

	TIONS: Print or typions and disposition		FAR 4	4 3.9,	FAR 43 Appe	endix B, and	AC 43.9-1 (or	subsequent	revision t	hereof)	
1 41060457	MAKE GRIEPIAN SERIAL NO. 1172					MODEL					
1. AIRCRAFT						NATIONALI	TY AND REGIST	TRATION MA	\RK		
	NAME (As shown o	cate)			ADDRESS (A	As shown on reginary and are	stration certif	certificate) nristiansted,			
2. OWNER	ATTILL	es air eoats	, IN	C.		ST CROI	N, U.S.V.I	00820	/	,,,	
			3	. F0	R FAA USE ON	LY					
							·				
		4. UN	IT IDE	NTIF	ICATION				5.	TYPE	
UNIT	MA	AKE			MODEL		SERIAL	NO.	REPAIR	ALTER- ATION	
AIRFRAME	RFRAME (As des				d in item 1 ab	ove) ******	***********	**		Х	
POWERPLANT	47										
PROPELLER											
	TYPE										
APPLIANCE	MANUFACTURER	·									
			6. (CONF	ORMITY STATEM	AENT					
A.	AGENCY'S NAME	AND ADDRESS		77	B. KIN	ID OF AGE			TIFICATE		
	NUSTIN		- :	1	FOREIGN CERTIF			AGP	2227109		
	TILLES AIR BO				CERTIFICATED RI	EPAIR STATION	l				
URISI	TANSTED, ST (LIGHA, USVI			MANUFACTURER						
attachme	that the repair an ents hereto have been the information fu	en made in accorda	ince w	vith 1	the requiremen	nts of Part 4	i3 of the U.S. F				
DATE	BER 27, 1978			SIG	NATURE OF	hone	INDIVIDUAL DE AUSTIN				
		·	APPRO	VAI	FOR RETURN TO		DE 19021114				
Pursuant to the Adminis	the authority given	persons specified	below	, the	unit identifie	d in item 4	was inspected in	the manne	r prescrib	ed by	
1 1	FLT, STANDARDS PECTOR	MANUFACTURER	X	INSP	PECTION AUTHORIZ	ZATION	OTHER (Specify)				
	A DESIGNEE	REPAIR STATION		OF 1	IADIAN DEPARTME TRANSPORT INSPE AIRCRAFT			20			
DATE OF API REJECTION SELPTE	PROVAL OR BER 27, 19 7 8	CERTIFICATE OR DESIGNATION NO IA 1617154) .	SIGI	NATURE OF A		FRITTLING	Karlof	Viu	Llz'	

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the

	•
SMOTTOH DNIHLON	
See Weight and Balance Records and Equipment List and Electrical Load Analysis.	
Both installed per ACA3-13-2, Chapter 2, Section 27.	
Installed one (1) Escort May/Com transceiver Model Ello per Marco Installation Manual and installed one (1) Bendix ADF T-12C May, Receiver, installed in accordance with Bendix Installation Manual.	(5)
Removed two (2) each Genave Nav/Com transceivers Model Alpha 200 at Station #9, right side on rack fastened to cockpit overhead to existing structure.	(z)
Supersedes previous radio installation of March 1977.	(1)
OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with air- onality and registration mark and date work completed.)	8. DESCRIPTION craft natio
on must be compatible with all previous alterations to assure continued contormity with the	

DEPARATION OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

	Approved		04 R 060) 1
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FOR FAA USE ONLY

OFFICE IDENTIFICATION 6/

	^									<u> </u>	1)	<u> </u>
		TONS: Print o		pe all entries. See	FAR	43.9,	FAR 43 Appe	ndix B, and	AC 43.9-1 (or	subsequent i	evision th	ereof)
	n.cn - c=	MAKE GRU	JMM	AN	•			MODEL (G-21A			
I. Ai	RCRAFT	SERIAL NO.	•						ry and regist N74676	TRATION MA	RK .	
		NAME (As sho	wn c	n registration certifi	cate)			ADDRESS (A	s shown on regi	stration certifi	cate)	
2. 0	WNER	ANTIL	LES	S AIR BOATS,	INC				aplane Ram			ed,
					3	. F0	R FAA USE ON	LY				
				4								
				4. UN	IT IDI	ENTIF	ICATION				5. 1	YPE
(זואנ		M	AKE 1			MODEL		SERIAL	но.	REPAIR	ALTER-
AIRF	AIRFRAME (As de					scribe	cribed in item 1 above)					χ
POW	ERPLAN1	іт										
PROP	ELLER								•	:	غر	
APPL	IANCE	MANUFACTURER	,									,•
		<u> </u>			6	CONF	ORMITY STATEN	AFNT	<u></u>			
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,,-	T ALIDE	AUSTIN	*****	t.mtun	<u></u>	X	U.S. CERTIFICAT	ED MECHANIC	 	 		27.10
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	•			CROIX, U.S.V.	I.		CERTIFICATED R	EPAIR STATION	<u>,</u>			
					,	<u>L</u> .	MANUFACTURER					
	attachme	nts hereto have	e be	d/or alteration ma en made in accorda rnished herein is o	ance v	vith	the requiremen	nts of Part 4	3 of the U.S. F			
DATE						SIC	NATURE OF	AUTHORIZED	INDIVIDUAL			
8	SEPTEM	BER 5, 197	78	·				CLAUDE_/	AUSTIN A	lande de	let	-
			:	7.	APPRO	VAL	FOR RETURN TO					
Pur the	suant to Adminis	the authority g trator of the Fe	giver edera	n persons specified Il Aviation Adminis	below tratio	, the	e unit identifie d is 💢 APPF		was inspected in REJECTED	n the manne	r prescrib	ed by
ВҮ	- 1	FLT. STANDARDS PECTOR		MANUFACTURER	X	INSI	PECTION AUTHORI	ZATION	OTHER (Specify)			
	FAZ	DESIGNEE		REPAIR STATION		OF	IADIAN DEPARTMI TRANSPORT INSPI AIRCRAFT					
DATE REJEC		PROVAL OR		CERTIFICATE OR DESIGNATION NO).	SIG	NATURE OF	Char	lente	eeflis	4	
	SEPT	EMRER 5 1	97	IA 1617154			*	CHARLES	FREEHLING	. 0		

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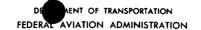
Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

INSTALLED ALCOR INC. EXHAUST GAS TEMPERATURE INDICATOR KIT # 326 I/A/W SUPPLEMENTAL TYPE CERTIFICATE NUMBER SA96SW PER REPORT 68-145 F.A.A. APPROVED LIST DATED 4/26/77.

--Nothing follows----

.:1



MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION
SO-FSDO-C1

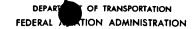
IN for	STRUCT instruction	TIONS: Print or toons and dispositi	ype all entries. See	FAR -	43.9,	FAR 43 Appe	ndix B, ar	nd AC 43.9-1 (or	subsequent	revision t	hereof)
		MAKE GRUMNO	TI .				MODEL	G-21A			
I. A	IRCRAFT	SERIAL NO. 1172					NATIONA	LITY AND REGIST	TRATION MA	ARK	•
2. 0	WNER	,	on registration certific	nic			U.S.V.	(As shown on regi PIANSTED, ST I. 00820		icate)	
	-				3. FO	R FAA USE ON	<u>LY</u>				
			4. UN	IT IDI	ENTIF	ICATION				5	TYPE
	TINU		MAKE		MODEL SERIAL NO.					REPAIR	ALTER- ATION
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POW	ERPLANT	·					** ** ** ** ** ** ** ** ** ** ** ** **				
PROF	PELLER										
APPL	IANCE	MANUFACTURER		•							
				6.	CONF	ORMITY STATEM	· · · · · · · · · · · · · · · · · · ·				
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D.	attachme	nts hereto have l	and/or alteration ma been made in accorda furnished herein is t	ince v	vith	the requiremen	nts of Part	t 43 of the U.S. F	described of ederal Avia	n the rev	erse or ilations
DATE	08	9/1 ;1/7 8		10000		Sie Co	authorizi	ED INDIVIDUAL			
Pur	suant to	the authority giv	/. / en persons specified eral Aviation Adminis	below	, the	FOR RETURN TO	d in item	4 was inspected in	n the manne	r prescril	ped by
ву	FAA	FLT. STANDARDS	MANUFACTURER	x	INSF	PECTION AUTHORIZ	ZATION	OTHER (Specify)	·		······································
		DESIGNEE	REPAIR STATION		OF OF	IADIAN DEPARTME TRANSPORT INSPE AIRCRAFT	ECTOR				
	TION	08/11/73	DESIGNATION NO 1A 1617:154) .	SIG	NATURE OF	AUTHORIZ	ED INDIVIDUAL	10.		

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record.

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	DRAWING SI-4000. IN ACCORDANCE WITH SORM INDUSTRIES FAR SEALED
	-1-E093-Is abenun taag
	FORMARD SUPPORT FITTING BLKD. STA. 33,
	INSTALLED SORM INDUSTRIES HORIZOUTAL STABILIZER
Identify with air-	8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. craft nationality and registration mark and date work completed.)
ent atiw ytimiotnoo	An alteration must be compatible with all previous alterations to assure continued applicable airworthiness requirements.

DDITIONAL SHEETS ARE ATTACHED





Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION SO-FSDO-61

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

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IN for	STRUC'	FIONS: Print or ty ions and disposition	pe all entries. See	FAR	43.9, FAR 43 App	endix B, and	AC 43.9-1 (or	subsequent	revision t	hereof)				
		MAKE				MODEL				- 1				
1 A	IRCRAFT	GRUMMA	<i>N</i>			G-21A								
1. ^	IKCKAII	SERIAL NO.				1 .	TY AND REGIST	RATION MA	ARK.					
		13-1172				10746		: .:						
2 0	WNER	NAME (As shown	on registration certific PIR BOAT	are) S	IUC.		As shown on regis							
2. 0	WILK	77,0772223	////	-,		U.S.V.1. 00820								
				3	B. FOR FAA USE O									
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			A UN	IT IN	FNTIFICATION					· <u>.</u>				
		T	4. UN	עו וו	ENTIFICATION				5.	TYPE				
	UNIT	M	AKE		MODEL	NO.	REPAIR	ALTER- ATION						
AIRF	RAME	******	•••••••••••••••••••••••••••••••••••••••	As de	scribed in item 1 a	bove)	**********	•						
POW	/ERPLAN1	Pratt &	Thitney	R -985 - AN	1	£ E 789		Х						
PROI	PELLER	•												
		TYPE												
APPL	IANCE	MANUFACTURER												
							u.							
				6.	CONFORMITY STATE	MENT			·····					
		AGENCY'S NAME	AND ADDRESS		+	ND OF AGE		C. CER	TIFICATE	NO.				
		. Faxel th Engino Cv	rawbon 7		**	ATED MECHANIC								
		Meacham Fie	•			REPAIR STATION	·	00D 100	. 00003					
		th, Tx. 7610			MANUFACTURE			A&P 120	37ET					
D.	attachme	ents hereto have be	nd/or alteration ma een made in accorda urnished herein is t	nce v	with the requireme	ents of Part 4	3 of the U.S. F	described or ederal Aviat	the revi	erse or lations				
DATE					SIGNATURE QE									
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					VAL FOR RETURN 1		/							
the	Adminis	the authority give	n persons specified al Aviation Adminis	below tratio	v, the unit identifing and is RAPP	ed in item 4 N	REJECTED	the manne	r prescrib	ed by				
BY		FLT. STANDARDS PECTOR	MANUFACTURER	Ж	INSPECTION AUTHOR		OTHER (Specify)							
		DESIGNEE	REPAIR STATION		OF TRANSPORT INS									
REJEC	CTION	PROVAL OR	CERTIFICATE OR DESIGNATION NO) .	SIGNATURE OF	AUTHORIZED	INDIVIDUAL							
A	pril a	2 7, 1 978	IA 1263781		Γ	241 B	Tale							

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

craft nationality and registration mark and date work completed.)

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets.

April 6, 1976 this Prett and Chitney 8 - 965 Mil ser. (EVE9 given nejor overhand Steel jurts magnetiumed nonferrous parts aygloinspected.

Chrone cylinders installed, guides end seate replaced as needed.

Cagnetes overhanded, ignitien harmens rebuilt.

Cagnetes overhanded, ignitien rauds, 66-7-1 orankehaft limmers,

C6-14-4 cas gear and 76-20-01 cylinderheads complish with this overhand.

C6-14-4 cas gear and 76-20-01 cylinderheads complish with this overhand.

All clearences and 76-20-01 cylinderheads complish with this overhand.

All clearences and volerences with in limits as shown in pract and shiften overhand manuel for this engine.

Parts replaced and rework accomplished as meeded.

Overhand and irejection report under workerder (270.

Engine test run April 27, 1978 for lil5 win.

Identify with air-

F TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved Budget Bureau No. 04-R060.1

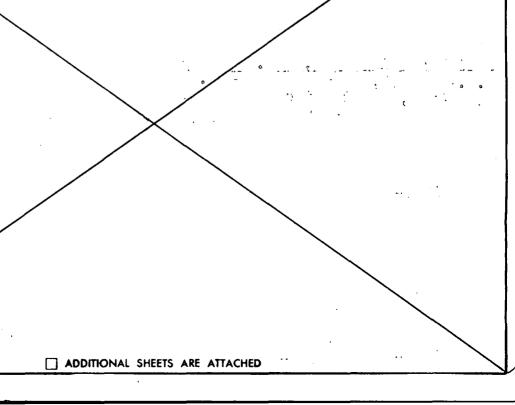
FOR FAA USE ONLY OFFICE IDENTIFICATION 50-F5D0-6/

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof)

for instruction	ons and disposi	tion	of this form.				,					
	MAKE			-		MODEL	G-21A					
1. AIRCRAFT	SERIAL NO.	GKI	UMMAN			NATIONALII	Y AND REGIST	RATION MA	.RK			
	JERRAL 110.	11	72 .			N 74676						
2. OWNER	NAME (As show	vn on	registration certific	ate)		ADDRESS (A SEAPLAN	s shown on regis	tration certifi	icate)			
L. UHNER	ANTILLES A	AIR	BOATS			CHRISTI		T. CROIX	ζ			
		rs-		3.	FOR FAA USE ON	LY						
	^	_								;		
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	0		٠									
4. UNIT IDENTIFICATION 5. TYPE												
UNIT MAKE					MODEL		SERIAL	NO.	REPAIR	ALTER- ATION		
AIRFRAME			••••••	s des	cribed in item 1 ah	ove)	*******	•				
AIRFRAME (As described in item 1 above)												
POWERPLANT Pratt & Whitney				1-985-ANI-I4B			T7777		х			
Pratt & V			nitney	i.	-707-ANI-1	4D	I7333		^			
PROPELLED												
PROPELLER												
	TYPE											
APPLIANCE	MANUFACTURER											
	MONITOR ACTURER							•		,		
				6. (ONFORMITY STATE		ļ					
	AGENCY'S NA				B. KIN	ND OF AGE		C. CER	TIFICATE	NO.		
Caribbe	am Airmo	tiv	e, Inc.		FOREIGN CERTIFICA		·	16903	355	•		
r.O.Box	4973, 0	Ld ÷ c	San Suan S Rico 0090	tа. 7	X CERTIFICATED F			#76I -	22			
San Ju	an, ruer	ι.O	mico 0090	1	MANUFACTURE	R		1 ", " =				
attachme	nts hereto have	e bee	l/or alteration made in accordarnished herein is to	nce w	ith the requireme	ents of Part 4	i3 of the U.S. I	described or Federal Aviar	n the reve tion Regu	erse or lations		
DATE					SIGNATURE OF	AUTHORIZED	INDIVIDUAL					
April	L 7 - 1977		·		Tomis	Jan	real !	Hom	O.			
					VAL FOR RETURN T	• • • • • • • • • • • • • • • • • • • •						
			persons specified l Aviation Administ		, the unit identific and is \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		was inspected i REJECTED	n the manne	er prescrib	ed by		
	FLT. STANDARDS PECTOR		MANUFACTURER	Z	INSPECTION AUTHOR		OTHER (Specify)	A&P-IA-	·52850) 4⊥		
1 1 1	DESIGNEE	Х	REPAIR STATION		CANADIAN DEPARTM OF TRANSPORT INSE OF AIRCRAFT	PECTOR				·		
DATE OF API	PROVAL OR		CERTIFICATE OR DESIGNATION NO)	SIGNATURE OF	AUTHORIZE						
April	L 7 - 1977	İ	76I-22	•	Joyre	. L	Mark	es -				
FAA Form	337 (7-67)		∜ U.S. GOVER	NMENT	PRINTING OFFICE:		/124/7	1	(-	8320)		

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the

applicable airworthiness requirements. 8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.) Engine reveived this station for overhauld. Engine completely dissasembly. All parts and components cleaned. Perform inspection of all parts and components per Paw, aircraft engine overhauld manual. All steel parts Magnafluxed. Alluminum parts inspected throughly and Zyglo checked. Check crankshaft per Paw, crankshaft spect and trough chart. Install overhauld magnetos by Caribbean Airmotive, Inc. ingine assembled per P. a W. Overhauld instructions. Test cell run up proved satisfactory as per row, run up procedure. Time since Mayor after rum up test, 4 nrs 26 min. the following Fow Service Bulletins are complied at this time. 1710-1703- 1718- 1758- 1783- 1000- 1175- 1183- 1710. C£W, AD, 57-5-4, Crankshaft rewerk. 66-I4-4, Cam reduction gear. 68-9-I, Flyweight & Linners. 76-20-0I. Cylds, head press, check. NOTHING FOLLOWS.



ENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION SU FSDO

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

FAA Form 337 (7-67)

INSTRUCT for instructi	TIONS: Print or typons and disposition	pe all entries. See n of this form.	FAR 4	43.9,	FAR 43 Appe	endix B, and	AC 43.9-1 (or	subsequent i	evision tl	nereof)	
	MAKE				****	MODEL			·		
1. AIRCRAFT		MAN				NATIONIALI	G-21A	TDATION	DV		
	SERIAL NO.	72				NATIONALITY AND REGISTRATION MARK N74676					
		on registration certifi					As shown on regi				
2. OWNER ²	INTILLES AIR	BOATS, INC.,	•			1	PLANE RAME	-	IANSTE	D	
	<u> </u>	•	3	. F0	R FAA USE ON		X U.S.V.I.	00820			
											
									•		
	***************************************	A 1111		-11716				 			
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UNIT	M.	AKE			MODEL		SERIAL	NO.	REPAIR	ALTER- ATION	
A 1000 / 110	:			-	_						
AIRFRAME	******	•••••••••••••••••••••••••••••••••••••••	As des	scribe	ed in item 1 ab	ove) ******	**********	••		X	
POWERPLANT							ļ				
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PROPELLER	OPELLER					·		•			
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	- THE PARTY OF THE						,				
		•	6.	CONF	ORMITY STATE	NENT					
Α.	AGENCY'S NAME	AND ADDRESS				ID OF AGE	· · · · · · · · · · · · · · · · · · ·		TIFICATE	NO.	
ANDREW WHI		•		×	U.S. CERTIFICA			SP 88469	504		
-	ES AIR BOATS	•			CERTIFICATED R				,		
_nklotlans	STED, ST. CRO	00820			MANUFACTURE						
D. I certify	that the repair an	id/or alteration ma	ide to	the	unit(s) ident	ified in item	1 4 above and	described on	the_reve	rse or	
attachme	nts hereto have be	en made in accorda urnished herein is t	ance v	vith	the requireme	nts of Part 4	13 of the U.S. I	Federal Aviat	on Regu	lations	
DATE				,	NATURE OF			<u> </u>		- '	
24 Ma	rch 1977			1	7 1	101.00	d. wh	los .			
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D :	aha anahanta				FOR RETURN T				n necessil	ad by	
the Adminis	tne authority gives trator of the Federa	n persons specified al Aviation Adminis	below	, the	unit identified is APPI	ROVED	was inspected i	n the manne	r prescrit	ed by	
INSI	FLT. STANDARDS	MANUFACTURER	X	INSF	PECTION AUTHORI	ZATION	OTHER (Specify)				
FAA	DESIGNEE	REPAIR STATION	X	OF	IADIAN DEPARTM TRANSPORT INSP AIRCRAFT		·				
DATE OF APPREJECTION	PROVAL OR	CERTIFICATE OR DESIGNATION NO				AUTHORIZE	INDIVIDUAL	Fuel	Vine		
FAA Form	227 17 17 17	10,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	//]		Of	Mr. Carlo	Juli		3320)	
TAM FORM	JJ/ [/-0/]										

applicable airworthiness requirements. An alteration must be compatible with all previous alterations to assure continued conformity with the Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record.

craft nationality and registration mark and date work completed.) Identify with air-8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets.

:SMOTTOJ and Bell crank attach fittings an inspection access door has been provided as In order to facilitate inspection of rudder and elevator push-pull rods, Bell cranks

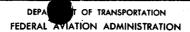
wheel well. All corners 5/16" radius. ten, 16.5 inches above the chine, 14.5 inches forward of each main gear A. One hold made on each side of the hull between hull stations nine and

Double row of rivets used with 1" spacing as in skin joints of airframe. of the hole toreestore skin strength at the location of the access hole. One doublar of 2024T3 X.050 X 10 3/4" X 9 3/4" riveted on the inside

as mentioned above. has been cut in the doubler and provides actual inspection facilities Ahole of 5 1/5" vertical dimension and 6.5" Longitudinal dimension

well inspection door. Cover installed on Sealant surface and torqued in same manner as wheel on floats and large water tight door on wheel well on R/H side of hull. of water tight cover constructed in the same manner as water tight doors D. # 8 X 32 Gang-nut channel with 3/4" spacing provides the attachment

Nav. Aer. 01-85V-3, Page 196, Figure 110 and AC 43-13-1, Chapter 3, E. All work done in accordance with Grumman Structure and Repair Manual



MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATIONS JU FSDO

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INS for	instruct	「IONS: Print or ions and disposit	type tion	e all entries. See of this form.	FAR 4	43.9	, FAR 43 Appe	endix B, and	AC 43.9-1 (or	subsequent	revision t	hereof)
		MAKE		Maria de la Caración				MODEL				·· · · · · · · · · · · · · · · · · · ·
1. AI	RCRAFT		GRU	MMAN					G-2:			
		SERIAL NO.						NATIONALI	TY AND REGIS		ARK	
		 	117	_				1000000	N740			
2 01	WAICH	NAME (As show	m on	n registration certifi	cate)			r .	As shown on regi			
2. 0	WNEK	ANTILLES	5 A	IR BOATS, IN	IC.,.	•			ne Ramp, VI Omas, U.S.		DKTAE	
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				•								
				4. UN	IT IDE	NTII	FICATION				5.	TYPE
ı	זואנ	į	MA	KE			MODEL		SERIAL	NO.	 	ALTER-
									l	· · · · · · · · · · · · · · · · · · ·	REPAIR	ATION
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		TYPE	-									
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APPLI	ANCE	MANUFACTURER										
		AGENCY'S NAM	4E A	AND ADDRESS	6.	CONF	ORMITY STATEM	MENT ID OF AGE	NCV	C C55	TIFICATE	NO
	A.	AGENCT 5 NAM	NC /	AND ADDRESS			U.S. CERTIFICA			C. CEP	CHEICALE	NO.
		S R. FREEHI	LIN	IG .		X	FOREIGN CERTI			A&P 16	17154	
		80x 731	_	•			CERTIFICATED R	EPAIR STATION	1			
		icksted, St	t.	Croix			MANUFACTURE	?				
		that the repair	and	l/or alteration ma	de to	the	unit(s) ident	ified in item	a 4 above and	described o	n the rev	erse or
:	attachme	ents hereto have	bee	n made in accorda rnished herein is t	ance v	vith	the requirement	nts of Part 4	13 of the U.S. I	ederal Avia	tion Regu	lations
								· · · · · · · · · · · · · · · · · · ·				
DATE						310	SNATURE OF	AUTHORIZED	INDIVIDUAL	1.0		
]	.8 March 197	77				Colonia.	Me fl	t sick	live		
				7.	APPRO	VAL	FOR RETURN TO	O SERVICE	, , , , , , ,	- 9		
Pur:	suant to Adminis	the authority giver strator of the Fed	ven leral	persons specified Aviation Adminis	below tration	the	e unit identifie d is APPI	d in item 4	was inspected i REJECTED	n the manne	er prescrib	oed by
	FAA	FLT. STANDARDS		MANUFACTURER		INS	PECTION AUTHORI	7ATION	OTHER (Specify)			
BY	INS	PECTOR	_		x				1			
-	FA	DESIGNEE	.	REPAIR STATION			NADIAN DEPARTM TRANSPORT INSP					
DATE	OF 4.7	DROVAL OR	_	CERTIFICATE OR			AIRCRAFT	AUTHORIZE				
		PROVAL OR	- 1	CERTIFICATE OR DESIGNATION NO	ɔ .	SIG	MAIUKE OF	AUTHORIZEI	D INDIVIDUAL	1 0	/	10
	EJECTION DESIGNATION NO. 18 March 1977 I.A. 1617154					CHARLES R. FREEHLING for le Melling						

FAA Form 337 (7-67)

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

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FEDERAL AVIATION ADMINISTRATION

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION SJU FSDO

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

IN: for	STRUCT instructi	IONS: Print or ty ons and disposition	pe all entries. See n of this form.	FAR 4	43.9,	FAR 43 Appe	endix B, and	AC 43.9-1 (or	subsequent	revision th	nereof)
		MAKE GRU	IMMAN				MODEL	G-21A			··
1. Al	RCRAFT	SERIAL NO.	2				NATIONALI	TY AND REGIST		ARK	-
		NAME (As shown	on registration certific	rate)			ADDRESS (4	As shown on regi		icate)	
2. 0	WNER	,	AIR BOATS, IN				1	NE RAMP, V		· ·	
					_		l .	OMAS, U.S.			
				3	. F0	R FAA USE ON	LY				
			4. UN	IT IDE	ENTLF	ICATION				5. 1	TYPE
	TINU	, M	AKE		MODEL SERIAL NO.					REPAIR	ALTER- ATION
AIRF	RAME	*****		As des	scribe	cribed in item 1 above)					x
POW	ERPLANT		:								
PROP	ELLER										
		TYPE									
APPL	IANCE	MANUFACTURER									
				6.	CONF	ORMITY STATEM	AENT	<u> </u>		<u> </u>	l
	Α.	AGENCY'S NAME	AND ADDRESS			B. KIN	ID OF AGE	NCY	C. CER	TIFICATE	NO.
CH	ARLES	R. FREEHLING	}		X	U.S. CERTIFICAT					
					<u> </u>	FOREIGN CERTIF			A&P 16	1/154	
	s.v.i.	eksted, St. (roix			MANUFACTURER					
D.	I certify attachme	that the repair an	nd/or alteration ma en made in accorda urnished herein is t	nce v	vith	unit(s) ident	ified in item nts of Part 4	3 of the U.S. F			
DATE 1		ch 1977		<u>.</u>		SNATURE OF	authorized Les M	ruld	ling		
						FOR RETURN TO	SERVICE				
Pur the	Adminis	trator of the Feder	n persons specified al Aviation Adminis	below tration	, the n and	unit identified is X APPF		REJECTED	n the manne	r prescrib	ed by
ВҮ		PECTOR	MANUFACTURER	x	<u> </u>	PECTION AUTHORI		OTHER (Specify)			
		DESIGNEE	REPAIR STATION		OF OF	TRANSPORT INSP AIRCRAFT	ECTOR				
	DATE OF APPROVAL OR CERTIFICATE OR DESIGNATION NO.					CHARLES R. FREEHLING how less the fluid					
	18 March 1977 I.A. 1617154					CHARLES R	. FREEHL	ING RAN	reex	1/KE	nem

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Installation of Carrier Aircraft Inc., seats and floor found to be installed in accordance with Drawings G-21-1001, G-21-1002 and G-21-1003, approved under TSO C-39. Two (2) each lounges manufactured by Carrier Aircraft, Inc., to TSO standards under TSO C-39. See attached drawing (2 sheets) G21 (1001). Four (40 seats ananufactured by Carrier Aircraft Inc., to TSO standards under TSO-C39. See attached to structure per structure substantiation report date 15 June 1969 attached to structure per structure substantiation report date 15 June 1969 attached to structure per structure substantiation report date 15 June 1969 attached to structure per structure substantiation report date 15 June 1969 attached to structure per structure substantiation report date 15 June 1969 attached to structure per structure substantiation report date 15 June 1969 attached 15 June 1969 attached 16 June 1969 attached 17 June 1969 attached 17 June 1969 attached 18 June 1969 attached 19 1969

NOTHING FOLLOWS.

NT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION



FOR FAA USE ONLY

OFFICE IDENTIFICATION FSDO

(8320)

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

FAA Form 337 (7-67)

IN: for	STRU(CTIONS: Print or ctions and disposit	type all entries. See ion of this form.	FAR 4	43.9, FAR 43 Appe	endix B, and	AC 43.9-1 (or	subsequent	revision t	nereof)			
		MAKE	MAN			MODEL	G 21 A		-				
1. Al	RCRAFT	SERIAL NO.	.72			NATIONALI U.S.A	TY AND REGIS	RATION MAN	ARK				
		NAME (As show	n on registration certifi	cate)			As shown on regi	stration certif	icate)				
2. 0	WNER	ANTTITE	AZD DOAMS -			VETERANS							
		MITTES	AIR BOATS, INC		ST. THOMAS, V.T. 00801								
			,										
			4. UN	IT IDI	NTIFICATION				5.	ГҮРЕ			
	TINU		MAKE		MODEL		SERIAL	ю.	REPAIR	ALTER- ATION			
AIRF	RAME	****	•••••••••••••••••••••••••••••••••••••••	As des	escribed in item 1 above)				. :				
POW	ERPLAI	PRATT & WH	ITNEY	985 An -1-14 J			JP-205355		x				
PROP	ELLER	PRAIL & WHITNEL											
		ТҮРЕ											
APPL	IANCE	MANUFACTURER			ì								
				6.	CONFORMITY STATE	MENT			L	L			
	Α	AGENCY'S NAM	E AND ADDRESS			ND OF AGE	NCY	C. CER	TIFICATE	NO.			
	_	H. Stoy			X U.S. CERTIFICA	······································		Jorge.	1. Mal	ter			
			r Boats, Inc.		FOREIGN CERTI			52858-4		9			
		11 GRANDE A1 Juan, Puert			MANUFACTURE	R		32838-4	+1 AGF				
	I certi attachi	fy that the repair nents hereto have	and/or alteration ma been made in accord furnished herein is t	ance v	vith the requireme	ents of Part 4	13 of the U.S. F	described or ederal Avia	n the reve tion Regu	erse or lations			
DATE	-		•		SIGNATURE OF	AUTHORIZED	·· ·- · · · - - · · · -						
	_				Jorge	_	ME	eng					
	Jun	e 11,1976	7.	APPRO	VAL FOR RETURN T	O SERVICE		1					
Pur the	suant (Admir	o the authority givenistrator of the Fed	ven persons specified eral Aviation Adminis	below	, the unit identifie	ed in item 4	was inspected in	n the manne	er prescrib	ed by			
	F.	AA FLT. STANDARDS	MANUFACTURER	x	INSPECTION AUTHOR	IZATION	OTHER (Specify)		٠,				
BY	F	AA DESIGNEE	REPAIR STATION		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT								
	OF A	PPROVAL OR	CERTIFICATE OR DESIGNATION NO	D .	SIGNATURE OF	AUTHORIZED	- · / <u>/</u>						
		6-11-76	1333000 A	т	1	Jan N	" KINOT	5	Λ.				

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Engine received this station for overhaul. Engine given inspection and completely dis-assembled. All parts cleaned and magnatured. All other parts cleaned and inspected in accordance with manufacture's specifications and replaced with new parts where needed. Overhauled magnetos and harness intalled Test cell run up proved satisfactory as per manufacture's specifications.

Time since overhaul 00:00 Hours.

TAA AD Note 66-14-4 previously compiled with " ...

SERVICE BULLETIN 1658-B previously complied with.

NOTHING FOLLOWS

DEPLEMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY
OFFICE IDENTIFICATION
ASO-FSDO-61

101 motracti	ons and disposition									
1. AIRCRAFT	MAKE				MODEL					
	Grumman				G-21A					
	SERIAL NO.				NATIONALITY AND REGISTRATION MARK					
	NAME (As shown o	n registration certific	rate)	•	U.S. N	14676 As shown on regi:	stration co-4:0	icate)		
2. OWNER	TAME (AS SHOWN O	registration centific	.u.ej			as snown on regi ane Ramp, V		=		
L. UNNER	Antilles Di	Antilles Air Boats, Inc.								
	ALLES AI		. FOR FAA USE ON	ST. Thomas, V.I. 00801 FOR FAA USE ONLY						
V. TOR TAN OUL OILL										
					•					
<u> </u>		4. UNI	T IDE	ENTIFICATION	• .			5. 1	TYPF	
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AIRFRAME	described in item 1 above)									
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POWERPLANT					******* 1		uniter soon it is of sought]		
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<u> </u>					And the second					
PROPELLER					•		-			
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A	AGENCY'S NAME	AND ADDRESS	υ.						NO.	
	•			W U.S. CERTIFICA			J. J.K			
Claude Austin c/o Antilles Air Boats, Inc.			FOREIGN CERTI			AP 2227109				
			CERTIFICATED R	EPAIR STATION	 					
				MANUFACTURE	R		<u> </u>			
D. I certify	that the repair and	d/or alteration ma	de to	the unit(s) ident	ified in item	4 abově and	described or	i the reve	rse or	
attachme	nts hereto haye bee	en made in accorda irnished herein is t	nce v	with the requireme	nts of Part 4	f3 of the U.S. F	rederal Aviat	ion Regu	lations	
DATE				SIGNATURE OF	·					
				1.0	AUTHORIZED	- II TOIT IDUAL			-	
Sept	ember 28,1975	5		Claude	Musto	_				
		7. <i>i</i>	<u>IPP</u> RO	VAL FOR RETURN T	O SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED										
	ELT STANDARDS			T		OTHER (Specify)				
INSF	PECTOR	MANUFACTURER	ot X	INSPECTION AUTHORI	IZATION					
BY	DESIGNEE	DEDAID CTATION		CANADIAN DEPARTM]				
	DESIGNEE	REPAIR STATION		OF AIRCRAFT	LUIOR					
DATE OF APPROVAL OR CERTIFICATE OR SIGNATURE OF AUTHORIZED INDIVIDUAL										
December 17, 1975 1333009 AI Loseph N. Stop										
								8320)		
PAA PARM '	5.5 / (7 <u>-</u> 67)			dod 1000 0				13	7.17111	

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous afterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with air-craft nationality and registration mark and date work completed.)

Removed Grumman G 21A Ring Cowls, p/n 13076, together with mounting brackets.

Beechcraft Cell8 engine modified cowlings in accordance with Pan Air Corp. drawings EL-0104 dated 5/7/65 and EL-0104-1 dated 6/15/65.

Beechcraft cowl support prackets, p/n 18 5 5916 and engine cowlings, upper, p/n 404-185901-lower, p/n 185903 installed under S.T.C. #SA551SW dated

Weight and balance correction entered in Air Craft Log Book.

Form approved. Budget Bureau No. 04-R060.

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:	FEDERAL AVIATION AGENCY	
	C.	-

MAJOR REPAIR AND ALTERATION FORM (AIRFRAME, POWERPLANT, PROPELLER OR APPLIANCE)										
1. AIRCRAFT	MAKE GRUMBIAN			MODEL G21A		SERIAL NO. 1172		NATIONALITY AND REGISTRATION MARK 174676		
2. OWNER	NAME (First, middle, last) ALASKA COASTAL-ELLIS AIRL		AIRLINES			SS (Street and number, city, zone 2, MARINE WAY, JUNEAU, ALASKA.		ue)		
3. COMPLETE ONLY FOR UNIT REPAIRED AND/OR ALTERED. DESCRIBE WORK ACCOMPLISHED ON REVERSE IN ACCOMPLISHED ON A										
UNIT		MAKE		MODEL		SERIAL NO.		NATURE OF WORK (Check) MAJOR REPAIR MAJOR ALTERATION		
a. AIRFRAME		***************************************	♠ (As described:	s described in item 1 above) ****		••••••				
b. POWERPLAN	r						-	:		
c. PROPELLER							,			
d. APPLIANCE		TYPE AND MANUFACTURER								
4. AIRCRAFT WEIGHT AND BALANCE DATA *AFTER the repairs and/or alterations described below were made. This item must be completed by repair or alteration agency. However, in the case of a spare component, it will not be completed until such component is installed in an aircraft. At this time, it will be completed by the installing agency, if applicable.										
CATEGORY		EMPTY WEIGHT (Po	EMPTY CEI	EMPTY CENTER OF GRAVITY (Inches from datum			USEFUL LOAD (Pounds)*			
STANDARI								1		
5. CONFOR	MITY S	TATEMENT (Complete and	check)							
a. AGENCY'S NA	ME AND AD	DRESS		b. KIND OF AGENCY			c. C	c. CERTIFICATE NO.		
FAIRFY CANADA LTD. VICTORIA INTERNATIONAL AIRPOR SIDNEY, B.C. CANADA			PORT	 □ U. S. Certificated Mechanic. ☒ Foreign Certificated Mechanic. □ Certificated Repair Station. □ Manufacturer. □ (Check if repair or alteration was made under delegation of tion procedures.) 						
d. I certify that the repair and/or alteration made to the unit(s) identified under item 3 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 18 of the U.S. Civil Air Regulations and that the information furnished herein is true and correct to the best of my knowledge.										
lst.	March	1966			A	Vilde				
(Date rep	air and/or	alteration completed)		J.K.FIELDI	NG.	(Signature of authorized	dívidual)			
6. APPROVAL FOR RETURN TO SERVICE (Check and complete appropriate items) Pursuant to the authority specified below the unit identified in item 3 was inspected in the manner prescribed by the Administrator of the Federal Aviation Agency and is APPROVED PAA Designee Manufacturer Canadian Department of Transport Inspector of Airchaft Repair Station Other (Specify) Standards Inspector										
(Date of approval or rejection) (Signature of authorized individual; title or identification number)										
7. TO BE COMPLETED ONLY BY FAA PERSONNEL										
Accepted 3/30/66 Reinspected Spot Checked ALASKAN REGION FSDO-3 (FAA designation number) See attached memorandum (Date) Reinspected (Date) (Signature Flight Standards Inspector)										

'INSTRUCTIONS

This form must be completed in applicate each time a major repair and/or alteration is made of an aircraft, airframe, power-plant, propeller or appliance. After the repair and/or alteration has been inspected and item 6 completed, the original copy of this form will be made available to the aircraft owner for retention as part of the aircraft records. The duplicate copy is retained by the FAA for administrative purposes.

See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning its preparation.

8. DESCRIPTION OF WORK ACCOMPLISHED.

- 1. Maintenance operation B carried out I C Chopter 9-11, Vol. 1. of Clarks Coastal-Ellis Airlines Faintenance Famual.
- 2. (2.0.4 and 5 Checks carried out 1AU Chapter 6-11. Vol.1. of
- 3. Bull and Centre section exterior stripped of print and refinished.
- 4. Additional work carried out as detailed in F.C. E. Warksheets A0067.
- 5. A.S. Notes 55-21-2.83-24-1.63-27-2 complied with.

°II additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

Form approved.
Budget Bureau No. 41-R052.4. S. DÉPARTMENT OF COMMERCE IVILAERONAUTICS ADMINISTRATION MAJOR REPAIR AND ALTERATION FORM (AIRFRAME, POWERPLANT, PROPELLER OR APPLIANCE) SERIAL NO. NATIONALITY AND REGISTRATION MARK 1. AIRCRAFT 1172 N 74676 Grumman Goose NAME (First, middle, last) ADDRESS (Street and number, city, zone and State) 2. OWNER Box 1059 Ellis Air Lines Ketchikan, Alaska 3. COMPLETE ONLY FOR UNIT REPAIRED AND/OR ALTERED. DESCRIBE WORK ACCOMPLISHED ON REVERSE IN ACCORDANCE WITH CIVIL AERONAUTICS MANUAL 18. NATURE OF WORK (Check) UNIT MAKE MODEL SERIAL NO. MAJOR ALTERATION MAIOR REPAIR a. AIRFRAME b. POWERPLANT PRATT & WHITNEY R-985-AN-1 3467 XXX c. PROPELLER TYPE AND MANUFACTURER APPLIANCE 4. AIRCRAFT WEIGHT AND BALANCE DATA This item must be completed by repair or alteration agency. *AFTER the repairs and/or alterations described below were made. case of a spare component, it will not be completed until such component is installed in an aircraft. At this time, it will be completed by the installing agency. if applicable. CATEGORY EMPTY WEIGHT (Pounds)* EMPTY CENTER OF GRAVITY (Inches from datum)* USEFUL LOAD (Pounds)* 23.85 1495 6505 Standard 5. CONFORMITY STATEMENT (Complete and check) a. AGENCY'S NAME AND ADDRESS b. KIND OF AGENCY c. CERTIFICATE NO. □ U. S. Certificated Mechanic. WESTCOAST AIRCRAFT SAIES Foreign Certificated Mechanic. AND SERVICE, INC. Certificated Repair Station. Boeing Field, Seattle, Wash. ☐ Manufacturer. (Check if repair or alteration was made under delegation option procedures.) d. I certify that the repair and/or alteration made to the unit(s) identified under item 3 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 18 of the U.S. Civil Air Regulations and that the information furnished herein is true and correct to the best of my knowledge. (Date repair and/or alteration completed) JE1ch (tander authorized individual) 6. APPROVAL FOR RETURN TO SERVICE (Check and complete appropriate items) Pursuant to the authority specified below the unit identified in item 3 was inspected in the manner prescribed by the Administrator and is CAA Designee ☐ Canadian Department of Transport Inspector of Aircraft CAA Aviation Safety Agent ☐ Repair Station ☐ Other (Specify) (Date of approval or rejection) (Signature of authorized individual; title or identification number) 7. TO BE COMPLETED ONLY BY CAA PERSONNEL a.

Forwarded for engineering comment ☐ See attached memorandum ☐ Reinspected ☐ Spot Checked (Date) (Date) (CAA designation number) (Signature Aviation Safe

16-54010-4

Form ACA-337 (4-52)

INSTRUCTIONS

This form must be completed in duplicate each time a major repair and/or alteration is made of an aircraft, airframe, power-plant, propeller or appliance. After the repair and/or alteration has been inspected and item.6 completed, the original copy of this form will be made available to the aircraft owner for retention as part of the aircraft records. The duplicate copy is retained by the CAA for administrative purposes.

See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning its preparation.

8. DESCRIPTION OF WORK ACCOMPLISHED.

Complete major overhaul of engine. All steel parts magna-flux inspected; all new seals and gaskets installed. All parts not within factory tolerance replaced. Installed overhauled magnetos #BB-20021 (RH) and #BB-14489 (IH), type SBRN-3. Installed overhauled Carburetor #5682780, type NARGB-18. Engine run-in on test cell in accordance with latest factory recomendations. Run-in satisfactory. Engine preserved for long-time storage. NO OTHER.

Engine installed on right side of N 74676, no weight change.

month of the delication

*If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

Check block if additional sheets are attached.;

U. S. DEPARTMENT OF COMMER CIVIL AERONAUTICS ADMINISTRATION

Form approved. Budget Bureau No. 41-R052.4.

MAJO	R REPAIR AND ALTERATI	ON FORM (AIRFRAME,	POWERPLANT	r, PROPELLE	K OR APP	LIANCE)
1. AIRCRAFT	MAKE Grundh Goodo	мо	G-21A	SERIAL NO 1172		NATIONALITY AN	D REGISTRATION MARK
2. OWNER	NAME (First, middle, last) Ellis Air Lines	•		Box 1059	number, city, zone a		
3. COMPLET CORDAN	TE ONLY FOR UNIT REPAIR CE WITH CIVIL AERONAUTIC	ED AND/OR A	ALTERED. DE 8.		•	ED ON RE	VERSE IN AC-
UNIT	MAKE ,		MODEL	SERI	AL NO.		WORK (Check)
a. AIRFRAME	***************************************	▲ (As described	in item I above) (•••••		MAJOR REPAIR	MAJOR ALTERATION
b. POWERPLANT	Pratt & Whitney	R-98	5-AN3	201	269	XXX	
c. PROPELLER			•				
	TYPE AND MANUFACTURER						
APPLIANCE							
*AFT	T WEIGHT AND BALANCE DA ER the repairs and/or alterations described below were made.	case of	a spare compor n an aircraft.	mpleted by repai nent, it will not At this time, it	be completed u	intil such co	mponent is in-
CATEGORY	Y EMPTY WEIGHT (Po	unds)*	EMPTY CEI	NTER OF GRAVITY (Inc	ches from datum)*	USEF	JL LOAD (Pounds)*
Standard 6505			23.85 2295				95
5. CONFORT	MITY STATEMENT (Complete and	check)	b. KIND OF AGE	MCV		c. CERTIFICAT	F NO.
WESTCO A	AST AIRCRAFT SAIRS ND SERVICE, INC. oeing Field, Seattle	, Wash.	U. S. C Foreign Certific Manufa	ertificated Mecha Certificated Me ated Repair Stat	chanic. ion. or alteration delegation op-	4104	Ost
attachmer	that the repair and/or alteration ts hereto have been made in a mation furnished herein is true a	ccordance with	n the requireme	ents of Part 18 of			
	0-13-52 pair and/or alteration completed)	ă	Lean J.	Eichstredt	322202 of authorized indiv	ridual)	
Pursuant trator and	6. APPROVAL FOR RETURN TO SERVICE (Check and complete appropriate items) Pursuant to the authority specified below the unit identified in item 3 was inspected in the manner prescribed by the Administrator and is						
□ RE	PPROVED BY \{ \bigcirc CAA Des CAA Avi Safety Ag	ation Re ent	pair Station	Other (Specify		AL-	37 1959 33 1959
8/21/5	of approval or rejection)		VI A (Sig	Mebel mature of authorized i	8802 ndividual; title or id	lentification qui	mber)\
	DMPLETED ONLY BY CAA PE ded for engineering comment (Date) Reg. 5 A ASVO 9		tached memora		Spot Checked	1	(Date)
(CA	A designation number)			(Signatur	e Aviation Safety	esht)	rm ACA-337 (4-52)
16-54010-4					-	E OI	22-24-001 (1-02)

INSTRUCTIONS

This form must be completed in duplicate each time a major repair and/or alteration is made of an aircraft, airframe, power-plant, propeller or appliance. After the repair and/or alteration has been inspected and item 6 completed, the original copy of this form will be made available to the aircraft owner for retention as part of the aircraft records. The duplicate copy is retained by the CAA for administrative purposes.

See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning its preparation.

8. DESCRIPTION OF WORK ACCOMPLISHED.

Complete major overhaul of engine. All steel parts magna-flux inspected; all new seals and gaskets installed. All parts not within factory tolerances replaced. Installed overhaul magnetos #BB 17683 (IH) and #BB 17919 (RH). Installed overhauled carburetor #5641032. Engine run-in on test cell in accordance with latest factory recomendations. Run-in satisfactory. Engine preserved for long-time storage. NO OTHER.

Engine Installed on Left N74676 no weight change

SEP 4 II 35 AM "53 ADMIN. & RECORDS BRANCE

Monte

If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

Check block if additional sheets are attached.

Form ACa-337 (11-48)

DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION

Form Approved. Budget Bureau No. 41-R052.2.

	REPAIR	AND	ALTERATIO	N FORM	(AIRCRAFT,	PROPELLE	RS, ENGINES, IN	STRUMEN	TS)
			(SEE REVE	RSE SIDE	OF THIS F	ORM FOR I	NSTRUCTIONS)		
1. AIRCRAFT	MAKE Grumr	nan	(Goose)		MODEL G21-A	i 1. 1	ERIAL NO.	-N 746	ND REGISTRATION MARK
	NAME (Fi	rst, middl	e, last)		ADDRESS (St	eet and number, ci	ty, zone, and State)		
2. OWNER	Ellis	a Ai:	r Lines		Box 10	159	Ketchikan,	Alaska	
3. FILL IN I	NFORMAT	TION II	N THIS ITEM	ONLY FO	R THE UNIT I	REPAIRED AN	ND/OR ALTERED		
UNIT		MAKE			MODEL		SERIAL NO.	MATURE OF	F WORK (Check) MAJOR ALTERATION
a. AIRCRAF	Т №	*****	***********	4 (As describ	ed in item 1 abov	e) P#######	***************************************		x
b. PROPELLER BLADE OR HUB									
c. ENGINE					•				
d. INSTRUMENT		ND MAI	NUFACTURER						
4. AIRCRAFT			Thi	item mus	t he completed	by rangir or e	alteration agency	Howavar in t	ho casa
WEIGHT AND	This item must be completed by repair or alteration agency. However, in the case of a spare component, it will not be completed until such component is installed in an aircraft. At this time, it will be completed by the installing agency, if applicable.								
* 41700000	,		EMPTY WEIGHT	(Pounds)*	EMPTY CENT	ER OF GRAVITY	(Inches from datum)*	USEFUL	LOAD (Pounds)*
*AFTER the rep described b	oairs and/or all below were made				nò c	nange	**** *** *** *** *** *** *** ***		
5. KIND OF AGENCY WHICH MADE REPAIRS AND/OR ALTERATIONS (Check)									
П МАГ	NUFACTURE	R	APPROVED	REPAIR ST	ration no	(Specifi	<u>ν</u>)	CERTIFIED	MECHANIC
	NAME			I	RESS (Street and			1 .	K ACCOMPLISHED
6. AGENCY			Elliott		Ketchi kar			<u> </u>	9/52
			(ALL WORK M AND ITS ASSO nstructi		CCOMPLISHED I	N ACCORDANC CS MANUAL 18	E WITH PART 18 OF .)	THE CIVIL A	R REGULATIONS
Two pr	ong pa	aw m	ade of .	052 18	8-8 steel	, forme	d to fit ce	nter sp	oke and
rim of	conti	ol v	wheel.	To thi	s is wel	ded a si	hort piece	of 18 - 8	rod.
Over t	chis if	fi	tted a 🕏	in OI	050 wa	ill th.	tube rivete	d to ro	d with
							d with a fo		
							s fastened passes thr		
panel.	and	in	. stiffn	er. is	secured	with n	at and space	er.	S of allone
Lock	is pair	ited	bright	red to	prevent	pilot :	from truing	to fly	without
first If more space	unlock	ring.	control	8 ach separate	sheets bearing ai	rcraft registration	on mark.	·	on the
FORWARDE ENGINEERI	D FOR	P. J.	miral	di	8-584	CAA	6-4-52		VO 0
I CERTIFY th	nat the abo	ve stat	ements are tru	e and corre	ect to the best	of my knowled			
	(Signature of	supervisi	ng mechanic)	£ .	A&E (Cer	301186	d rating)	4/1	9/52 Date)
'			то в	E COMPI	ETED BY CA	A REPRESE	NTATIVES		
APPROV		ESIGNEE'	S SIGNATURE	·			NO.	DATE	
REJECT	ED G	AA AGENT	r signature	1	1 2-0	0,	ACCEPTED REINSPECTED	DATE	

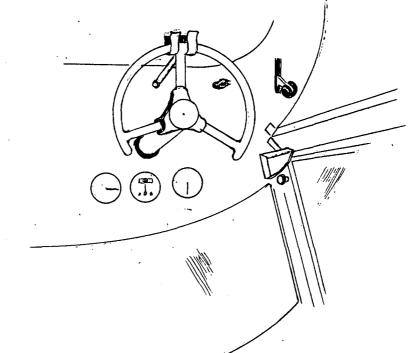
INSTRUCTIONS

- This form must be filled out in duplicate each time a major repair and/or alteration is made of an aircraft, propeller, engine,
- ized representative of the CAA. Form ACA-309, the aircraft shall not be returned to service until the operation limitations have been corrected by an author-When repairs and/or alterations are made which affect the operation limitations set forth in the Airplane Flight Manual or .s
- returning the article to service. Certificated mechanics must, in all cases, obtain approval of the repair and/or alteration from the CAA representative prior to
- and/or repair does not change any of the operation limitations. The manufacturer of an aircraft, engine, propeller, or instrument, and a certificated repair station holding the appropriate rating may return the article to service without prior approval of an authorized CAA refugeshiative, provided the alteration
- For an Aircraft Repair and/or Alteration—Complete Items 1, 2, 3a, 4, 5, 6, and 7. 15. MY 00 11 Repair agencies will be guided as follows when completing this form.
- approval, the CAA representative will return the original copy to the mechanicanio should submit it to the aircraft Mechanic-Submit to CAA representative for inspection and approval prior to represent the service. Upon
- agent prior to returning article to service. Manufacturer or Approved Repair Station—Submit original to sircraft owner, forward copy to CAA district office or CAA
- Distribute copies as in a aboye. For a Component Installed in an Aircraft—Complete Items 1, 2, 3 (b, c, or d, whichever is applicable), 4, 5, 6, and 7.
- warded to the nearest CAA district office or CAA agent. installing agency is necessary.) After installation, original form should be submitted to aircraft owner, and copy foragency who will distribute the forms as follows: (No further approval of CAA is required, only a log-book entry by the with the component until installation on an aircraft. At this time Items I, 2, and 4 must be completed by the installing Mechanic-Submit to CAA representative for inspection and approval. When approved, retain both copies of the form For a Spare Component—Complete Items 3 (b, c, or d, whichever is applicable), 5, 6, and 7.

CAA representative for inspection or approval. Manufacturer or Approved Repair Station—Handle same as for mechanics except that it is not necessary to submit to

Aileron controls are in neutral, and elevators just off bottom stops ot lock. A clip is provided to left of lock on instrument panel for stowage

Myen jock is engaged.



For	m ACA-309	9 (8-47)												
1	ITED STATES DEPARTMENT OF TIL AERONAUTICS	OF COMMISSION	A E ON		OPE	RATION	LIMI	TATION	S	MNDARI	D)	,		
MAKE P & VI			IAFT	C			NATION	NATIONALITY AND REGISTRATION MARKS						
ENGINE	мор <u>т</u> 985-л	an-6		AIRCRAFT	MODEL	G-21A SERIAL I				72	TYPE		654	
	ENGINE AND AIR SPEED LIMITS NOT TO BE EXCEEDED (All Values Are Maximum and Are NOT RECOMMENDED OPERATING LIMITS)													
			EN	GIN	E LIMITS	s			TRU	JE INDIC	ATED			
		MINUTES	ALTIT	UDE	IN. HG.	R. P. M.	HP.	MIN. OCT.				M. P. H. LAND	M. P. H. SEA	
TAI	KE-OFF	1	AN	_	36.5 33.5	5500 5300	450 400	87 80	CLIMB O	CLIMB OR LEVEL FLIGHT		194	194	
ETO*	EA LEVEL		T	-	34.5	5500	7100	80	GLIDE OR DRIVE (Smooth Air Only)		225	225		
Fig.	LTITUDE .	FROM	500	0	33.5	2200	400	80	FLAPS EXTENDED		110	110		
°ME	METO—MAXIMUM EXCEPT TAKE-OFF													
		TAKE-	OFF W	EIGH	т				· LAND	ING WEIG	HT	-		
LAN	^{ID} 80	00	SE	A	8000)	LAND	800	0	SEA	800	00		
						C. G	. LIMITS	;						
LAN	ib (/ :	20.5)	TO (+	33.0)		SEA	(/ 2	20.5)	TO (;	/ 33	.0)	-	
						W	EIGHT							
				SEE	WEIGHT AN	D BALANCE I	DATA FOR I	LOADING INF	ORMATION					
	WING LEADING EDGE AT PUSELAGE													
	EILING	S				LIMI	TATION	5					_	
	(a)	Withou	t de	-i	cers:	6000	ft.	absolu	te (de	ensity	al	titud	e)	
İ		with e	ithe	r	engine	inop	erati	70.		-				
	(b)	With d	e-ic	er	8: 70	ero ft.	. (use	able)	in sta	andard	air	at		
		8048 1 tive p	bs. rope	wi 11	th eit	her en	ngine n high	inope pito	rative h.	and	the	inop	era-	
ТŅS	PECTOR'S O	R DESIGNE	E'S SIG	NĄTI	URE	۸۸		ESIG. NO.	j	DATE				
)	Norman H. Saller 8-583-3 October 16, 1951													



ADDITIONAL LIMITATIONS (IF YES_SEE OVER)

THIS FORM MUST BE AVAILABLE IN THE AIRCRAFT WHEN OPERATED

Pursuant to Special Civil Air Regulation SR-337, as amended, this aircraft when being operated entirely within the Territory of Aliska under the provisions of Part 41 or 42 of the Civil Air . Regulations is auticrized to operate in accordance with the following limitations:

> Maximum Weight (Take-Off and Landing) Landplane 8800 lbs. 8800 lbs. Seaplane

Propeller(s)

Ham. Std. Constat Speed 2D30/6101A-18 - Diam. 102 inches. Pitch settings shall be such that the following will be developed:

- (1) 2300 R.P.M. 50 R.F.M. at 36.5 inches Manifold Pressure with
 - (a) Aircraft static on ground
 - (b) Propeller control in Full low pitch
 - (c) Throttle setting as required.
- (2) 2200 R.P.M. 50 R.P.M. at 34.5 in Hg. Manifold Pressure with

(a) Aircraft climbing after take-off at

an airspeed of 110 E.P.H.

(b) Throttle setting as required

Horio1821Aolaina October' Dates

C.A.A. Agent

Det 29 2 04 PN"51

I CERTIFY THAT THE ABOVE STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. CERTIFICATE NUMBER AND RATING SUPERVISING MECHANIC SIGNATURE OF TO BE COMPLETED BY CAA REPRESENTATIVES NUMB ER APPROVED SIGNATURE OF DESIGNEE Kerman 88 00 REJECTED FORWARDED FOR ACCEPTED . ENGINEERING APPROVAL 12-11-50 (X) REINSPECTED

. 17 14 d. – 17 d. – 17 d. – 17 d. – 17 d. – 17 d. – 17 d. – 17 d. – 17 d. – 17 d. – 17 d. – 17 d. – 17 d. – 17

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DEC 51 - 8 27 Wh .20

DEPT OF COMMERCE ...

CIVIL AERONAUTICS ADMINISTRATION ANCHORAGE, ALASKA

AIRCRAFT WEIGHT & BALANCE

AIRCRAFT: Make & Model Grumman G-21-A Registration No. N 74676	Serial No. 1172
Date: 1/17/50 PlaceKetchikan, Alaska Scales Used: Dillion	Dynometer & Fair banks Beam
Weighing Witnessed By: John C. Bowen	CAA
Aircraft Weighed as Follows:	
1. EMPTY (Fuel and oil drained at system drains) 2. IN LEVEL FLIGHT ATTITUDE 3. FIXED EMERGENCY EQUIPMENT INCLUDED AS FOLLOWS:	•
4. DATUM IS Leading edge of Wing at 30" from C:L of Hull	
See attached sketch	.*
· NOTE: Aircraft balanced in level flight position when sus	nended from

Total Empty Weight(W): 6180#

Empty Weight C.G. = 22.6 Ins. Aft of Datum

lifting eye.

LOCATION OF EQUIPMENT ITEMS

ITEM	Weight (Lbs.)	Arm (Ins. from Datum)
Propeller and Propeller Accessories 201 Constant Speed Propeller Controls	13	- 23
302 Two Controllable Metal Propellers Hamilton Standard Hubs 2D30, Blades 6101		
Engine and Engine Accessories- Fuel and Oil System	5/	7/
101 Two Engine Ring Cowls	56	- 36
102 Two Oil Radiators	26	0 - 12
103 Two Starters Eclipse E-80	•	
108 Pressure Fire Extinguisher Lux A-1.21		- 33
111 E Military R-985-AN 6 B Manual	:	
104 One Generator with control box Carburetors		
Landing Coon 30 x 8 Hoves		
Landing Gear 32 x 8 Hayes Ellis Air Lines Water Rudder Model C		
305 12.50 Tail Wheel Goodrich	,	, ,
301 Two Wing Tip Floats Liberty Type 17		
204 Two Batteries 34 Amp		
216 Miscellaneous	• .	
		7
Interior Equipment		
207 Radio Lear T30 R3 AB		·
225 Cabin Heater Manifold		
Marquette Windshield Swipe		ol ·
Two Seats with Life Belts		Plus 24
Two Seats with Life Belts		Plus 62
Two Seats with Life Belts	•	Plus 102
Two Pilot Cushions with Life Belts	•	D1 174
One Emergency Seat with Life Belt	100	Plus 136
210 Two Windows in Cabin Doors	100	125
Four Tie Up Cleats	12	
One Ellis Spash Strip	12	
No Smoking and Belt Sign		
One Anchor and Line One CO2 and One Axe		
One Pyrene		
One Paddle with Hook		
Two Cans Emergency Rations		136
One Flashlight		-7-
One First Aid Kit		
OHO LILOO MIG MIO		•

in Angele and the control of the con

6200 Held Received

20#

6200 23.5 145700 20 290 5800 0. . 0. 6180 139900 22.6

M A C 97.4

Datum Leading Edge Wing at 30 " from C.L. of Hull C.G. Range Forward 20.5 " Rearward

A Company of the Comp • •

F	orm ACA-	3009 -Pa	ge 1 (2	2-46) 				****	•	<u> </u>				
ľ	NITED STAT DEPARTMENT IVIL AERONAUTI	OF CAME	ATION		0	PERA		LIMIT	ATION	S (Stand		к и 7 46	76	
ш	MAKE	& 3	- 1	AKE	ms Cest			TE MFRD.	SERIAL I	I	DESIGNATION	1	CERT.	
ENGINE	MODEL SB	<u> </u>	IRCRA	1000	1-21		7 /	35	. A.	172	Land &		. 4	
W W	Op		< 1				•	···	. , .		Sea	55	4	
		EN	GINE							TÖ BE EX PERATING LIMITS				
				ENGI	NE LI	MITS				TRUE	INDICATE	D AIR SPI	EED	
		MINUTES	ALTI	TUDE	IN. HG	. R. P.	м.	н. Р.	FUEL OCT.		WEIGHT	М. Р. Н.	KNOTS	
T	AKE-OFF	1	-	- :	4.5	220	0 4	00	80	CLIMB OR LEVEL FLIGHT	5000	194	169	
T	AKE-OFF	1		- :	6. 5	230	0 4	50	87	GLIDE OR DIVE (Smooth Air Only	5000	225	195	
1	SEA LEVEL		•	ro • 3	以.5	550	o 4	00	87	FLAPS EXTENDED	8000	110	96	
	SEA LEVEL		50	00 3	3.5	550	0 4	00	87	CLIMB OR LEVEL FLIGHT	-	-	•	
AKE-OFF	ALTITUDE	FROM (Stra	d gb	t 1	ne :	mani:	old	pres	ure	GLIDE OR DIVE (Smooth Air Only) -	•	-	
į	TUDE	vari	ati	aon 1	ros	Sea	Lev	el to		FLAPS EXTENDED	-	-	•	
UM EX	LOW IMP.	5000	•)			•		•	•	DATUM				
MAXIM	LOW IMP.	•	-		-	-		Nusel			Louding Edge At age.			
	HIGH IMP.	***	•	,	•	-		•	•					
l	HIGH IMP.	*	•		**			•	*					
				USE	ABLE		,	ID ADDIT	IONAL (CONDITIONS	*			
CI	EILINGS (FT.)	WEIG	нт	R. F	ъ. м.	M'FOLD PRESS.	FUEL OCT.	T. I. A. S.	F	PROP, DEICER		WING DEICER	1	
•	6000	8000	·	Let	0 1	ieto	87	-		Ho		Ro		
: 4	Zero	804,8		Het			87	•		Yes		Tes		
	*Standard	air, any e	ngine i	noperat	iv a vi	ling	in	nigh n	i toh	arburetor air in	take on "cold	air."		
-		MAXIMU								MAXIMUM L				
LA	ND 800	00 lbs	•	SEA	80	20 11		LAND	8000	lbs.	SEA BOO	00 lbs.	•	
	See @e	night.	end	Dal	SET C			ons auti		loading	inform	etion.		
	, , ,		····						I I	ATE 1/17/50				
							•	-		<u> </u>				

ADDITIONAL OPERATIONS AUTHORIZED (IF YES—SEE OVER) THIS PLACARD MUST BE DISPLAYED IN VIEW OF THE PILOT

ADDITIONAL OPERATIONS AUTHORIZED

exceed the following meximum weighter: provisions of Special Civil Air Regulation SR-337 at not to This aircraft is authorized to operate in accordance with the

.adf 0088 - beqqiupe feodw .baal

.adf 0088 -

Form ACA 3							
DEPARTME	TES OF AMERICA ENT OF COMMERCE AUTICS ADMINISTRATION		CATION NO.	1654-2	CAA IDENT. No. ((
	EQUIPMI	ENT No.	met milit i o. Lineir atm	SPECIA	L EQUIPMENT		
NUMBER	NUMBER	NUMBER	NUMBER	ITEM (Descrip	lion)	WGT.	ARM
201			1	t speed Propell	er Con-		
205			trole			13	-23
302			Two Cor	trollable Metal	ropella	# 3 0	3 - 52
2.62			新春花花 花	a lude adjo. Li	eces 0101	-	-
101			200 Atte	ine Ring Cowle		56	-36
108				Madiatora		26	AND THE COLUMN
103			1	rtere (Kolipse	•	****	-12
108			1	e Fire Extingui	shor Lux		
			A-I	M. 105 M. 16 F	_	21	-33
1112			1	y 2-985-au 63 u		***	-
10h		•	1	erator with equ	trol box		
			1	uretors	,		-
				Gear 32 x 8 Ea			40-40
		•	I I	ir Lines ater	Rud der		
	, <u></u>		Mode	1		-	****
305				ail Wheel Goods			-
301				g hip Floats Li	borty Typ		
a.m.6			17			-	-
204			1 1	tories 34 Amp		***	-
216			Missell			-	,igg-ski.
207	,			eur 730 R3 M		***	-
225				octor Manifold		***	-
				to Mindehield S			de la
				ta wit Life Bo			<i>f</i> 24
				to with Life Be		60	162
				te with Life Be		**	1108
			1 1	ot Cuantoms wit		1 1	
				reemoy Seat wit		1 . 1	£136
)			dowe in Cabin D	oors	100	f125
				e Up Cleate		- ***	-
				is Splash Strip		15	-446
16			, ,	ing and Bolt Si	gn.	300 Mg.	**
•				or and Line		:400,400	***
				and Inc are		***	-
	·		Case Pyr			-	Apply Martin
				the with Hook		:50	man Anno
				s Emergency Eat	1006	***	/130
			One Fin			**	-
•		• •	Came eir	et aid lit		-	-
NODMAT	(LAND)		C. G. L	IMITS NORMAL	(SEA)		
20.5" 1	to 33.0"	(15.2%-2	ex mac)	20.5° to 33,0"	(15.2%-2	9 % KA	ic)
IN FLIGHT				IN FLIGHT) /		u. p
DATE 1/3	7/50		INSPECTOR	S SIGNATURE	All		
•			7	Show	C. Dow	en	

16-46123-1

COCATION AND BRIEF DESCRIPTION OF REPAIR
DETEND NOTERATION FORM DATED
OCATION AND BRIEF DESCRIPTION OF REPAIR
BEARIN AND ALTERATION FORM DATED
N AND BRIEF DESCRIPTION OF REPAIR
CETAG MROT NOITERETTE AND RIAGES
OCATION AND BRIEF DESCRIPTION OF REPAIR
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OCATION AND BRIEF DESCRIPTION OF REPAIR
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OCATION AND BRIEF DESCRIPTION OF REPAIR
GETAIR MAD PUTERATION FOR MADED
GNA RIEPAIR AND

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	REPAIR AND ALTERA	ATION FORM	M (AIRCRAFT, PROPI	ELLERS, ENG	INES, INST	TRUMENTS)	
of an ai	TIONS - This form must be incraft, propeller, engine, or an Aircraft - Complete	, or instru items 1, 2,	ument, as follows: , 3a, 4, 5, 6, and	7 and submit	t to CAA re	presentative fo	or approval.
(B) Fo	or a Component Installed in	n an Aircra	aft - Complete item	is 1, 2, 3(b,	c, or d,	whichever is a	pplicable),
	5, and 6, and submit as our a Spare Component - Comp			S. and 6. an	d submit t	o CAA represe	ntative for
ap ai	proval. When approved, reircraft. At that time, ite	etain both ems 1, 2, a	h copies of this f and 4 must be compl	form with the	e component	until installa	ation on an
	orward forms as described i	IR (A) auci	MODEL	SERIAL	. NO•	CAA IDENT	FIFICATION MARK
1. AIRCRAFT			4 93 4		1 #G	N 746	ne
	NAME (First, middle, last	t)	ADDRESS Street a	ind number, c	ity, zone,	and state)	76
2. OWNER	Ellis Air Lines		Box 1059		ikan Al	aska	
3. FILL IN	INFORMATION IN THIS ITEM (ONLY FOR TH	HE UNIT REPAIRED AN	D/OR ALTERED)		
UNIT	MAKE		MODEL	SERIA	AL NO.		WORK (Check)
VIII .		<u> </u>				MAJOR REPAIR	MAJOR ALTERATION
A A I RC RAFT		describe	d in Item 1 above	, ,		Ann	ual
PROPELLER b. BLADE OR HUB	I .						
c. ENGINE						·	
d. INSTRUMENT	TYPE AND MANUFACTURER T	1					
item 4 will	wing items are to be compl ll not be completed until by the installing agency,	l such com if applic	nponent is installe cable.	ed in an aire	craft. At	this time, it	em 4 will be
4. AIRCRAFT	EMPTY WEIGHT (Pounds) El	MPTY CENTER	R OF GRAVITY (Inche	s from datum		LOAD (Pounds)*	
	repairs and/or alteration						
	AGENCY WHICH MADE REPAIRS FACTURER APPRO		TERATIONS (Check) R STATION NO.			🙀 CERTIFI	ED MECHANIC
	·			(SPECIFY)			,
• AGENCY	Therma		RESS (Street and nui				
7 25 2001 0	IN OF WORK ACCOMPLISHED		80× 1059		kan Ala		5 1949
AERONAUT	TICS MANUAL 18. (If more	space is ne	eeded, continue on .	reverse, or a	attach separ	rate sheets bea	aring aircraft
Inape	ected.repaired. a	rid bar	ntod all in	terior m	etel.	(OCOVERSU	: 中くか~ 名工T TSDIY
Insta	alled inspection	plates	; t op ៩០០១ ខា	18011120	r over	Strut III	frng.
Repla	acad one cracked	front	Stabilizor r	Ilinge II	• Surification	0 mon: 00 01	r or Foat
Remor	ved corner front	STEBE	and instarte	ים טשו בול	arkray	Grow pac	
Conve	erted flat vacuum	n syste	w to brmhe				
Insta	alled life jacket elled full lord s	(2 att	Seats	oibed ~	Jana 1.	towed Por	er suoply
Insta	elled Tull lord &	3NOUA III	mant on now	. Man 10	©, CI 11 △ 7 +	to bow ov	vər vacuun
I CERTIFY 1	THAT THE ABOVE STATEMENTS	ARE TRUE A	AND CORRECT TO THE	BEST OF MY K	NOWLEDGE.	M FALLS	<u> </u>
	7-111		′ *				
	1 Therm	<u>-0</u>					
	STENATURE OF SUPERVISING	MECHANIC		ATE NUMBER A		DAT	
- U	ED SIGNATURE OF DESI	TO BE COM	HPLETED BY CARONE		YES MB ER	Peb 5	1949
APPROVE			-	1.0%	io En		
REJECTE		200	17/2	160 0	ACCEPTED.	DATEB	5 1949

Strip paint from entire exterior of ship checked for corroision and painted with Ellis standard colored Primer

Installed Tie up cleats two front and two rear

Two rear Grumman seats fixed for reclining back to take stretcher

Installed no smoking Seat Belt Sign

Installed Ellis Amphibious "heel indicator

Install Fuel pressure warning lights

Installed CO2 rear of cabin

l'oved switch panel from Dash to over pilot seat

Moved Generator control box from nacelle to cockpit

2 6 36

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3.1. MA TE B US NUIS

Hermany Bry in

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5/10/149

AIRCRAFT WEIGHTING

and

BALANCE REPORT

NC 74676 Serial 1172

Submitted Under Request Of

ELLIS AIR LINES

Box 1059

Ketchikan, Alaska

Model Grumman G-21-A Reference Aircraft Specifications A - 654 - 3

Prepared by
J. L. Sherman

Checked by -

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7

i .

Reference Aircraft Specifications A - 654 - 3

Weighting Equipment Calibrated Engines R 985 - AN - 6B (two) Horsepower maximum except take-off 400 horsepower each Therefore, minimum fuel = 800 = 66.66 gallons 12 +20.5 inches (15.2%) C. G. Range Forward Rearward +33.0 inches (28.0%) Datum wing leading edge at fuselage Maximum weight 8600 pounds

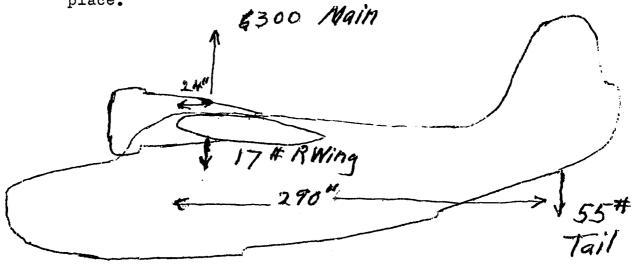
Summary Airplane Weight Empty

5964 23,45 11 21.8 Weight Empty C. G. 2650 2636 Useful Load Loading Schedule See Page 4 Place 9 5964 Airplane Weight Empty Fuel for Place (66) 390 Oil (12 gallens) 90 Baggage 626 Pilot and Passenger 340 Passengers Cabin (7) 1190 Load 8600

. D

Actual Weight and Balance

1. Determination of Weight Empty and Center of Gravity, airplane Grumman G-21A, bearing NC 74676 and Serial 1172 was weighed in Ellis Air Lines Maintenance Hangar, Ketchikan, Alaska, on February 6, 1949. The airplane was weighed in level flight position on Dillion Dynometer and balanced with spring tension scales from tail eye and wing tie-down ring. Fuel tanks were dry and oil tanks had 132 gallons. All equipment listed on Page 5 of this report was in place.



Item	Weight	Arm	Moment
Main reaction scale error Level and sling	6300 -1 59 - 4	+24"	146880
Tail reaction R Wing reaction	- 55 - 17	4 290"	-15950
0il 13½gallons	-101	+ 8"	<u>- 808</u>
Weight Empty	5964	23.45	130122

1353 1711/ 6- Ma 4 77 5 5 B .• • •

II	Forward C. G. Extreme	Weight	Arm	Moment
	Airplane Weight Empty	5964	23.5	146880
	Oil (13 gallons)	97	8	776
	Pilot and Passenger	340	- 5	- 1700
	Baggage (bow)	300	- 65	-19500
	Minimum Fuel (67 gallons)	402	30	12060
		7103	19.5	138516

Forward C. G. Extreme of 19.5 exceeds limit of 20.5, therefore, Loading Schedule required-Placard no baggage in bow with empty cabin

III Rearward C. G. Extreme

Airplane Weight Empty	5964	23.5	146880
Oil (13 gallons)	97	8	776
Fuel (140 gallons)	840	3 0	2 5200
Pilot	170	- 5	- 850
Passengers (2)	340	24	8160
Passengers (2)	340	62	21080
Passengers (2)	340	102	34680
Passenger (1)	170	136	23120
Baggage	<u>300</u>	169	50700
	8561	36.18	309746

Rearward C. G. of 36.18 exceeds limit of 33., therefore, Loading Schedule required-Placard 140 gallons maximum fuel with gross load

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Equipment List	Weight	Arm
Propeller and Propeller Accessories 201 Constant Speed Propeller Controls 302 Two Controllable Metal Propellers Hamilton Standard Hubs 2D30, Blades 6167A-12308	13	-23 -52
Engine and Engine Accessories - Fuel and Oil System 101 Two Engine Ring Cowls 102 Two Oil Radiators 103 Two Starters Eclipse 108 Pressure Fire Extinguisher Lux A-1 111 E Military R-985-AN 6 B Manual 104 One Generator with Control Box Carburetors	56 26 77 21 632	-36 0 +12 -33
Landing Gear and Floats Ellis Air Lines Water Rudder Model C 305 12.50 Tail Wheel Goodrich 301 Two Wing Tip Floats Liberty Type 17 204 Two Batteries 34 Amp 216 Miscellaneous Instruments		
Interior Equipment 207 Radio Lear T30 R3 AB 225 Cabin Heater Manifold Marquette Windshield Swipe Two Grumman Seats with life belts Two McArthur Seats with life belts Two Barkley Seats with life belts Two Pilot Cushions with life belts One Emergency Seat with life belt	y	
Two Cans Rations 210 Two Windows in Cabin Doors Four Tie Up Cleats One Experimental Splash Strip No Smoking and Belt Sign One Anchor and Line One CO2 and One Axe One Pyrene One Paddle with Hook Two Cans Emergency Rations One Flash Light One First Aid Kit	100 12	125

MA: .4-308

FORM ACA-305 (3-7-46)	DEPARTMENT OF CO					
APPLICATION FOR AIRWORTHINESS CERTIFICATE AND/OR ANNUAL INSPECTION OF AN AIRCRAFT			INSTRUCTIONS Please submit this form to the Civil Aeronautics Administration Field Representative.			
APPLICATION (Check) AIRWORTHINESS CERTIFICATE	CAA IDENTIFICATION					
ANNUAL INSPECTION	NC NX) MK [] OIH	ER (Specify) 746	76		
	AIRCE					
Grumman Grumman			21 A			
registration, no. 1172 74676 MANUF	ACTURER'S SERIAL NO. 1172	DATE MANUFACT				
	ENG	NE				
wasp Jr. I	Pratt & Whitney	MODEL R 985	5-AN 6	8450.P.		
(Check whether) ☐ NEW ☐ USED ⚠ OVERHAULED	IF OVERHAULED, STATE BY Grand Centra	WHOM	DAT	e of overhaul 8-26-47		
(Check which) AIRCRAFT NOW REC	SISTERED WITH THE ADMINIST	RATION	APPLICATION FOR REG (FORMS ACA-501 AND	ISTRATION AND BILL OF SALE 502) ATTACHED		
OWNER'S NAME		ł	•	o., City, Zone, State)		
Ellis Air Line)\$ 	Вож	1059 Ketc	hikan Alaska		
ATTACHMENTS (Check which)			TATEMENTS ARE TRUE	ma a		
ACA-319 X WEIGHT AND BALA X ACA-337 SPECIAL APPROVA		E	llis Air Li	пөв		
ACA-805 DATA, DRAWINGS,	. 1	-	J.L. Sherm	A.M.HORIZED AGENT		
ACA-317 UNAPPROVED DEV	IATION DATA 2-5-49	•	Vive Pres			
	DATE			TITLE		
FORM ACA-305a (FORMERLY ACA-30 (To be completed by	O7) AIRCRAFT I	NSPECTION RI		esentative)		
1T HAS BEEN DETERMINED THAT THE	AIRCRAFT DESCRIBED IN 305	ABOVE IS IN C	ONFORMITY WITH THE	FOLLOWING		
LISTING IN INSPECTOR'S HANDBOOK, CHAP. XVIII	AIRCRAFT SPECIFICATION		AIRWORTHINESS DIRECTIVE			
109 T.C. NO. A654	SERIAL NO. EFFECTIVE NOTES		NO. 67 HAUEFFE	0-14-6 419-16-2		
other (Describe) Flap Vacuum taken from one pump Exceptions, if any of additional additional accordance of the control of th						
FORM ACA-319 APPROVED B	Mis fliett	MECH. CERTII	5. AND RATING NO. 301186	2-5-49		
FORM ACA-1362 PERT FICATE V	ALID TO (Specify date)					
AIRCRAFT AIRWORTHINESS CERTIFICATE WITH OPERATION LIMITATIONS FORM (ATTACHED) WAS ISSUED						
FINDINGS (OUC) and						
[TABE]	GNATURE AND NO	005	٠,٠	DATE		
UNAIRWORTHY CAA INSPECTOR	Sherman ANEN 'S SIGNATURE	m c-82]	ACCEPTED	2-5-49 DATE		
REASON FOR DISAPPROVAL, OF REMARKS (Indicate it you have used the reverse to continue this or other item _ Wes _ No)						
-		Δ . Δ) Do Fis			
	•		00 8 / Ex	12 6-29-49		
and Eller						
			, N			
		•		12.28-30		
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NEG			Ha	90		

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E MOLL ROOM 3 24. MA TE B OS MUL DEPT OF COMMERCE AUM

DEPARTMENT OF COMMERCE FORM ACA-305 BUDGET BURBAU NO. 41-R041.2 CIVIL AERONAUTICS ADMINISTRATION APPROVAL EXPIRES FEBRUARY 15, 1947 (3-7-46) APPLICATION FOR AIRWORTHINESS CERTIFICATE AND/OR INSTRUCTIONS ANNUAL INSPECTION OF AN AIRCRAFT Please submit this form to the Civil Aeronautics Administration Field Representative. APPLICATION (Check) CAA IDENTIFICATION AIRWORTHINESS CERTIFICATE NC NX NR OTHER (Specify) 74676 ANNUAL INSPECTION AIRCRAFT MODEL @ 21 A Oru-man REGISTRATION NO. MANUFACTURER'S SERIAL NO. DATE MANUFACTURED 3- 43 74676 1172 ENGINE MODEL RIGHT "98**5-** 4135 RATED H.P. MAKE Inft 4905- ANS. ast drs (Check whether) IF OVERHAULED, STATE BY WHOM DATE OF OVERHAUL Salifornia 'rend Control NEW USED OVERHAULED APPLICATION FOR REGISTRATION AND BILL OF SALE AIRCRAFT NOW REGISTERED WITH THE ADMINISTRATION (FORMS ACA-501 AND 502) ATTACHED PERMANENT ADDRESS (Street and No., City, Zone, State) OF TR'S NAME 1277 Fongess Litchikas allie dir aines ATTACHMENTS (Check which) I CERTIFY THAT THE ABOVE STATEMENTS ARE TRUE 31110 Min Anos ACA-319 X WEIGHT AND BALANCE REPORT X ACA-337 SPECIAL APPROVALS Vinna ACA-805 DATA, DRAWINGS, ETC. OWNER OR AUTHORIZED AGENT UNAPPROVED DEVIATION DATA Vice erouident ACA-317 1-31-48 DATE FORM ACA-305a (FORMERLY ACA-307) AIRCRAFT INSPECTION REPORT (To be completed by a CAA inspector or a designated inspector or representative) IT HAS BEEN DETERMINED THAT THE AIRCRAFT DESCRIBED IN 305 ABOVE IS IN CONFORMITY WITH THE FOLLOWING LISTING IN INSPECTOR'S HANDBOOK. AIRCRAFT SPECIFICATION AIRWORTHINESS DIRECTIVE CHAP. XVIII PAGE NO. T.C. NO. SERIAL NO. EFFECTIVE NOTES 1- 80° EFFECTIVE NOTES A (16) A 650-2 A-654-3 other (Describe) 113 fir 1198 odol C stor adder EXCEPTIONS, IF ANY (If additional space is required, use ly been approved for installation on N.C. 88821 FORM ACA-319 APPROVED BY . 3110tt MECH. GERALF AND RATING NO. DATEP 3-48 (Return to FORM ACA-1362 CERTIFICATE PAGE TO (Specify date) ISSUED AIRCRAFT AIRWORTHINESS CERTIFICATE WITH OPERATION LIMITATIONS FORM (ATTACHED) WAS ISSUED FINDINGS 1-3748 MATURE AND NO. DATE R216 AI RWORTHY DATE ACCEPTED REINSPECTED ormos REMARKS (Indiverte if you have used the reverse to continue this or other atem Yes No. REASON FOR DISAPPROVAL, OR

I-MOOR JIAM HOTƏHIHSAW

84. MA 75 8 ES 89A

DEPT OF COMMERCE ADM.

BUDGET BUREAU NO. 41-R052.1
APPROVAL EXPIRES DECEMBER 31, 1948

2 ◀	REPAIR AND ALTERATION FORM (AIRCRAFT, PROPELLERS, ENGINES, INSTRUMENTS)									
INSTRUCT	IONS - This form must be f rcraft, propeller, engine,	illed out	in duplica	te each time	a major repair 8	and/or	alteration	on is	made	
(A) For	r an Aircraft - Complete i	tems 1, 2,	3a, 4, 5,	6, and 7 and	submit to CAA re	prese	ntative f	or app	roval	
(B) For	r a Component Installed in 5, and 6, and submit as d	an Aircra	eft - Comple in (A) above	te items 1, 9	2, 3(b, c, or d,	which	ever is a	pplica	ble),	1
(C) Fo	r a Space Component - Comp	lete item	s 3(b. c. o	r d), 5, and	6, and submit	to CAA	represe	ntatia	e for	
ai	proval. When approved, re rcraft. At that time, ite rward forms as described i	ms 1, 2, a	and 4 must b	e completed l	by the installin	ig age	ncy, which	h will	on an	
• AIRCRAFT	MAKE		MODEL		SERIAL NO.		CAA IDENT		TIONM	ARK
	Grumman NAME (First, middle, last	 	G 21		1172	and	NC 74	676		
• OWNER	Ellis Air Lines 1277 Tongass Ketchikan 4laska									
FILL IN	INFORMATION IN THIS ITEM O	NLY FOR TH	E UNIT REPA	IRED AND/OR	ALTERED					
UNIT	MAKE		MODEL		SERIAL NO.		NATURE OF WORK (Check)			
						MAJO	OR REPAIR			AT ION
• Alrcraft PROPELLER		describe	d in item 1	above)		-		X		_
BLADE OR									APR -	₹.
ENGINE						1.	- T	35	23	A
	TYPE AND MANUFACTURER					+	<u>P</u>	=		———D
- INSTRUMENT							SHING	200	9 2	LUVIO
The following items are to be completed by repair or alteration agency. However, in the case of a spectomponent, item 4 will not be completed until such component is installed in an aircraft. At this time, item 4 will be completed by the installing agency, if applicable.										
• A I RCRAFT	EMPTY WEIGHT (Pounds)* EM	PTY CENTER	R OF GRAVITY	(Inches fro	m datum)* USEFUL	32	(Pounds)*		#8	Ž
AFTER the repairs and/or alterations described below were made.										
KIND OF AGENCY WHICH MADE REPAIRS AND/OR ALTERATIONS (Check) MANUFACTURER APPROVED REPAIR STATION NO MANUFACTURER MECHANIC										
	(SPECIFY) NAME ADDRESS (Street and number, city, zone, and state) DATE WORK ACCOMPLISHED									
. AGENCY	NAME					/	1-344		OMI LI	3)12 9
	J.L. Sherman		x 1059		kan Alaska	IANC 4			<u> </u>	
DESCRIPTION OF WORK ACCOMPLISHED IN ACCORDANCE WITH PART 18 OF THE CIVIL AIR REGULATIONS AND ITS ASSOCIATED CIVIL AERONAUTICS MANUAL 18. (If more space is needed, continue on reverse, of attach appearance sheets, bearing discreft identification mark) Install Ellis Air Lines Fodel C Vater Rudder (Approved										
Install passenger seat rear cabin bulkhead for NC 88821)										
Weight and Balance enclosed						- /				
-	Install Spray str	ips bo	n of hu	11						
Install lear radio										
	Install indshiel	d swif	99			0.	ps. During			
CERTIFY T	THAT THE ABOVE STATEMENTS	ARE TRUE A	ND CORRECT	TO THE BEST O	F MY KNOWLEDGE.					•
ا کو	1 I D		,	La II	VAR 7/1		1-	3 ~	48	/
STONATURE OF SUPERVISING MECHANIC CERTIFICATE NUMBER AND RATING DATE										
TO BE COMPLETED BY CAA REPRESENTATIVES										
APPROVE	To a sure of the state of the s		^		NUMB ER	, D	ATE / ~	<u> </u>	-1.	
REJECTE	·	VM C	<u>~</u>		8216	2	ATE .	<u> </u>	7.6	5
FORWARD ENGINEE APPROVA	·-···-	rmo	J.01	Zory on	ACCEPTED REINSPECT		2/10/1	18	-	_
1572	ι									

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KETCHIKAN, ALASKA

PA GE 1

GRUMMAN AIRCRAFT CORPORATION REPORT NO. 1 WEIGHT AND BALANCE OF MODEL G 21A SERIAL NO. 1172 IDENTIFICATION MARK NC 74676

DATE JAN. 20, 1948 PREPARED BY J. L. Sherman CHECKED BY Walt Nebel WITNESSED BY

J. L. Sherman

MAIL ROOM - I WASHINGTON

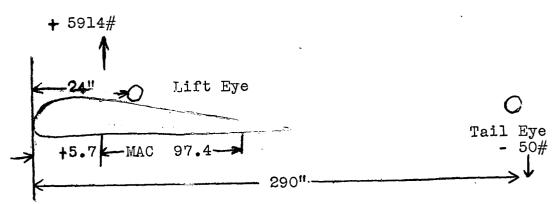
84° MA 85 8 ES A9A

OEPT OF COMMERCE

P. D. BOX 1059 KETCHIKAN, ALASKA

AIRCRAFT EMPTY WEIGHT

Empty weight as weighed (in level landing position)



Left Wing at 261" from Lift Eye - 23#

	Scale	Tare	Net
Lift Eye	+ 5914#	4	5910
Tail Eye	- 50		- 50
Left Wing Eye	- 23		- 23
Scale Error	- 159		- 159

Scale Error arrived by weighing known weight at 4000#. We believe the error will increase at 6000# but have been unable to check.

Gas Empty Oil Drained

Empty Weight

5678

I-MOOH JIAM Motaniheaw

81 - Hill 82 8 ES RAIL

DEPT OF COMMERCE

ELLIS AIR LINES

P. D. BOX 1059 KETCHIKAN, ALASKA

Lift Eye is 24" aft Leading Edge of Wing

Empty C. G. =
$$\frac{-50 \times 266}{5678}$$
 = -2.3

C. G. is
$$24 - 2.3 = 21.7$$

Empty weight as weighed includes the following:

Item # 302 2 controllable metal props 2D30 - 6101A

2026 2 electric eclipse Fl41 starters

101 2 engine regular cowls

102 2 oil radiators UAP # U3160

201 2 constant speed prop controls

108 l pressure fire extinguisher Lux Al

301 2 wing tip floats Grumman Design 13000

A CA CA CA

104 l generator 25 AMP

204c2 2 exide 6 - TAS - 9 - 1

216 miscellaneous instruments

210 window in emergency seat door

207 radio lear T 305R 3 AB 25#

HAIL ROOM -: WASHINGTON

Bh. MA 75 9 ES AAA

OEPT OF COMMERCE CIVIL AERONAUTICS ADM.

ELLIS AIR LINES

P. O. BOX 1059 KETCHIKAN, ALASKA

Most Forward C. G. Condition

	Weight	$\underline{\text{Arm}}$	Moment
Empty Weight as Weighed	5678	+21.7	123213
Oil 15 gals.	113	+ 8	+ 904
Fuel 67 gals.	402	+30	1.12060
Pilot	170	- 5	- 850
Passenger (Cockpit)	170	- 5	- 850
	6533	20.5	134477

Most Rearward C. G. Condition

	Weight	Arm	Moment
Empty Weight as Weighed	5678	+21.7	123213
Oil 15 gals.	113	+ 8	+ 904
Fuel 67 gals.	402	+30	+ 12060
Pilot	170	- 5	- 850
2 Passengers (Front)	340	+18	6120
2 Passengers (Middle)	340	+62	21080
2 Passengers (Rear)	340	+102	34680
l Passenger (Auxiliary)	170	+136	23120
Rations	100	+ 169	16900
Baggage in Rear	100	169	16900
÷	7753	32.77	254127

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BIT HATS B ES AN

CHAIL AERONAUTICS ADM.

ELLIS AIR LINES

KETCHIKAN, ALASKA

C. G. Gross Load

	Weight	$\underline{\mathtt{Arm}}$	Moment
Empty Weight as Weighed	5678	+ 21.7	123213
Oil 15 gals.	113	+ 8	904
Fuel 96½ gals.	580	+ 30	17400
Pilot	170	- 5	- 850
Passenger (Cockpit)	170	- 5	- 850
Anchor and Lines	40	- 88	- 3520
Baggage Forward	260	- 65	- 16900
2 Passengers (Front)	340	+ 18	6120
2 Passengers (Middle)	340	+ 62	21080
2 Passengers (Rear)	340	+102	34680
l Passenger (Auxiliary)	170	+136	23120
Rations	100	+ 169	16900
Baggage in Rear	300	1 169	50700
Provisional Gross	8600	31.62	271997

HAIL ROOM - I Washington

Bh. MA 52 8 ES A9A

DEPT OF COMMERCE

DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION Washington

FERRY PERMIT, TEMPORARY REGISTRATION AND AIRWORTHINESS CERTIFICATE. Joseph R. James Date February 12, 1947 Address Ale Claire Hotel, Moline, Illinois G-21 _Aircraft, Model JRF-6B | This is your authority to ferry Grumman Army Identification No. (66333) Res. 74676 Fig. Manufacturer's Serial Number 1172 ______. date of manufacture _______. This temporary certificate for ferry is valid only when the owner or his agent has found this aircraft airworthy for the purpose of this flight, and the owner assumes all responsibility for such flight from Cal-Aero Airport, Catario, Calif. Grand Central, Glendale to / Long Boach, Calif. After the flight the attached Form ACA-501, properly executed, together with DPC bill of sale, should be presented to your local inspector for assignment of registration number, which must be painted on the aircraft as set forth in Section 60.32 of the Civil Air Regulations. Application (ACA-305) for an Airworthiness Certificate may be made to an Inspector of the Administration. This certificate is valid only when the aircraft is flown by a certificated pilot. No person other than a necessary and valid member of the crew may be carried. This authority expires upon arrival at the destination, and not later than Febraury 22, 1947 (Date). A. S. Wand Inspector, General Inspection REMITTANCE applied on NOTE: Title to subject aircraft this Certificat transferred by DFC bill of sale or equivalent title decement dated/ February 12, 1947 Moward E. Rice P. C. Supervisor (Date) DISTRIBUTION: 1st copy: To Pilot. This copy must be presented by owner to Original: Inspector at time of issuance of airworthiness certificate. Duplicate: 2nd copy: Forwarded by DPC to issuing Inspector to be forwarded to Inspector concerned. Duplicate: 3rd copy: Forwarded by DPC to issuin Inspector for filing

with aircraft folder papers submitted to Washington.

LITAL INSTRUCTIONS TO OWNER FOR REGISTERING AIRCRAFT

If the purchaser from DPC desires to sell the aircraft before it is registered in his name and/or put into airworthy condition or cannot be issued an airworthiness certificate, it will be satisfactory to issue a regular ferry permit (not Army Surplus Ferry Permit) authorizing movement of the aircraft from the base to where new owner desires to take it. HOWEVER, before the second flight, the following procedure should be followed with regard to registration and title transfer:

- (1) If Form ACA-500-A bearing registration number has been issued to purchaser who obtained title from DPC and he desires to sell the aircraft, the new owner should obtain a bill of sale (ACA-502 or its equivalent) and present same together with Form ACA 501 (both properly executed) to the inspector; and simultaneously the vendor should endorse the original ACA-500-A over to the new owner. When these required actions have been accomplished, and the registration numbers have been painted on the aircraft as set forth in Section 60.32 of the Civil Air Regulations, the ferry permit for the second flight may be granted.
- (2) If, after arrival at destination, the original purchaser desires to sell the aircraft before he submits his ACA-50l and bill of sale, or in advance of the issuance of ACA-500-A in his name, the second purchaser should submit an ACA-50l in his name, together with the original bill of sale from DPC to the first purchaser and the bill of sale (ACA-502) from the first purchaser to the new applicant. (In other words, the continuity of title in the aircraft must be established for recordation purposes and before issuance of an aircraft registration certificate.)
- (3) With regard to aircraft transfers involving conditional sales contracts, mortgages, etc., such transfers should not be handled by inspectors. *Guch matters are for direct handling by AIRCRAFT REGISTRATION AND RECORDATION in WASHINGTON.

FEB 24 3 52 PH 347 CERTIFICATE SECTION

FEB 21 B LG ON ON CONTRACTOR APPRICE APPRICE APPRICE APPRICE ON THE ROOM ON TH